

**Table 9. Nonmarital childbearing according to detailed race and Hispanic origin of mother, and maternal age: United States, selected years 1970–2001**

[Data are based on birth certificates]

<i>Race, Hispanic origin of mother, and maternal age</i>	1970	1975	1980	1985	1990	1995	1996	1997	1998	1999	2000	2001
Live births per 1,000 unmarried women 15–44 years of age <sup>1</sup>												
All races and origins . . . . .	26.4	24.5	29.4	32.8	43.8	44.3	43.8	42.9	43.3	43.3	44.0	43.8
White <sup>2</sup> . . . . .	13.9	12.4	18.1	22.5	32.9	37.0	37.0	36.3	36.9	37.4	38.2	38.5
Black or African American <sup>2</sup> . . . . .	95.5	84.2	81.1	77.0	90.5	74.5	72.8	71.6	71.6	69.7	70.5	68.2
Asian or Pacific Islander . . . . .	---	---	---	---	---	---	---	---	---	---	20.9	21.2
Hispanic or Latino <sup>3</sup> . . . . .	---	---	---	---	89.6	88.7	86.1	83.2	82.8	84.9	87.2	87.8
White, not Hispanic or Latino . . . . .	---	---	---	---	24.4	28.1	28.2	27.5	27.9	27.9	28.0	27.8
Percent of live births to unmarried mothers												
All races . . . . .	10.7	14.3	18.4	22.0	28.0	32.2	32.4	32.4	32.8	33.0	33.2	33.5
White . . . . .	5.5	7.1	11.2	14.7	20.4	25.3	25.7	25.8	26.3	26.8	27.1	27.7
Black or African American . . . . .	37.5	49.5	56.1	61.2	66.5	69.9	69.8	69.2	69.1	68.9	68.5	68.4
American Indian or Alaska Native . . . . .	22.4	32.7	39.2	46.8	53.6	57.2	58.0	58.7	59.3	58.9	58.4	59.7
Asian or Pacific Islander . . . . .	---	---	7.3	9.5	13.2	16.3	16.7	15.6	15.6	15.4	14.8	14.9
Chinese . . . . .	3.0	1.6	2.7	3.0	5.0	7.9	9.2	6.5	6.4	6.9	7.6	8.4
Japanese . . . . .	4.6	4.6	5.2	7.9	9.6	10.8	11.4	10.1	9.7	9.9	9.5	9.2
Filipino . . . . .	9.1	6.9	8.6	11.4	15.9	19.5	19.4	19.5	19.7	21.1	20.3	20.4
Hawaiian . . . . .	---	---	32.9	37.3	45.0	49.0	49.9	49.1	51.1	50.4	50.0	50.6
Other Asian or Pacific Islander . . . . .	---	---	5.4	8.5	12.6	16.2	16.5	15.6	15.2	14.5	13.8	13.7
Hispanic or Latino <sup>3</sup> . . . . .	---	---	23.6	29.5	36.7	40.8	40.7	40.9	41.6	42.2	42.7	42.5
Mexican . . . . .	---	---	20.3	25.7	33.3	38.1	37.9	38.9	39.6	40.1	40.7	40.8
Puerto Rican . . . . .	---	---	46.3	51.1	55.9	60.0	60.7	59.4	59.5	59.6	59.6	58.9
Cuban . . . . .	---	---	10.0	16.1	18.2	23.8	24.7	24.4	24.8	26.4	27.3	27.2
Central and South American . . . . .	---	---	27.1	34.9	41.2	44.1	44.1	41.8	42.0	43.7	44.7	44.3
Other and unknown Hispanic or Latino . . . . .	---	---	22.4	31.1	37.2	44.0	43.5	43.6	45.3	45.8	46.2	44.2
Not Hispanic or Latino: <sup>3</sup>												
White . . . . .	---	---	9.6	12.4	16.9	21.2	21.5	21.5	21.9	22.1	22.1	22.5
Black or African American . . . . .	---	---	57.3	62.1	66.7	70.0	70.0	69.4	69.3	69.1	68.7	68.6
Number of live births, in thousands												
Live births to unmarried mothers . . . . .	399	448	666	828	1,165	1,254	1,260	1,257	1,294	1,309	1,347	1,349
Maternal age												
Percent distribution of live births to unmarried mothers												
Under 20 years . . . . .	50.1	52.1	40.8	33.8	30.9	30.9	30.4	30.7	30.1	29.3	28.0	26.6
20–24 years . . . . .	31.8	29.9	35.6	36.3	34.7	34.5	34.2	34.9	35.6	36.4	37.4	38.2
25 years and over . . . . .	18.1	18.0	23.5	29.9	34.4	34.7	35.3	34.4	34.3	34.3	34.6	35.2

--- Data not available.

<sup>1</sup>Rates computed by relating births to unmarried mothers, regardless of age of mother, to unmarried women 15–44 years of age. Population data for unmarried American Indian or Alaska Native women and prior to 2000, population data for unmarried Asian or Pacific Islander women were not available for rate calculations.

<sup>2</sup>For 1970 and 1975, birth rates are by race of child.

<sup>3</sup>Prior to 1993, data from States lacking an Hispanic-origin item on the birth certificate were excluded. See Appendix II, Hispanic origin.

NOTES: National estimates for 1970 and 1975 for unmarried mothers based on births occurring in States reporting marital status of mother. Changes in reporting procedures for marital status have occurred in some states during the 1990s. Interpretation of trend data should also take into consideration expansion of reporting areas and immigration. See Appendix II, Marital status. The race groups, white, black, American Indian or Alaska Native, and Asian or Pacific Islander, include persons of Hispanic and non-Hispanic origin. Persons of Hispanic origin may be of any race. Population estimates used to compute rates for 1991–2000 differ from those used previously. Rates for 1991–99 were revised using intercensal population estimates based on Census 2000. Rates for 2000 were computed using Census 2000 counts and rates for 2001 were computed using 2000-based postcensal estimates. Data for additional years are available. See Appendix III.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System, Birth File. Hamilton BE, Sutton PD, Ventura SJ. Revised birth and fertility rates for the 1990s and new rates for Hispanic populations, 2000 and 2001: United States. National vital statistics reports; vol 51, no 12. Hyattsville, Maryland: National Center for Health Statistics, 2003; Births: Final data for each data year 1997–2000. National vital statistics reports. Hyattsville, Maryland; Final natality statistics for each data year 1993–96. Monthly vital statistics report. Hyattsville, Maryland; Ventura SJ. Births to unmarried mothers: United States, 1980–92. Vital Health Stat 21(53). 1995.

**Table 19 (page 1 of 2). Infant, neonatal, and postneonatal mortality rates, according to detailed race and Hispanic origin of mother: United States, selected years 1983–2001**

[Data are based on linked birth and death certificates for infants]

<i>Race and Hispanic origin of mother</i>	<i>1983<sup>1</sup></i>	<i>1985<sup>1</sup></i>	<i>1990<sup>1</sup></i>	<i>1995<sup>2</sup></i>	<i>1998<sup>2</sup></i>	<i>1999<sup>2</sup></i>	<i>2000<sup>2</sup></i>	<i>2001<sup>2</sup></i>
Infant <sup>3</sup> deaths per 1,000 live births								
All mothers . . . . .	10.9	10.4	8.9	7.6	7.2	7.0	6.9	6.8
White . . . . .	9.3	8.9	7.3	6.3	6.0	5.8	5.7	5.7
Black or African American . . . . .	19.2	18.6	16.9	14.6	13.8	14.0	13.5	13.3
American Indian or Alaska Native . . . . .	15.2	13.1	13.1	9.0	9.3	9.3	8.3	9.7
Asian or Pacific Islander . . . . .	8.3	7.8	6.6	5.3	5.5	4.8	4.9	4.7
Chinese . . . . .	9.5	5.8	4.3	3.8	4.0	2.9	3.5	3.2
Japanese . . . . .	*5.6	*6.0	*5.5	*5.3	*3.4	*3.5	*4.5	*4.0
Filipino . . . . .	8.4	7.7	6.0	5.6	6.2	5.8	5.7	5.5
Hawaiian . . . . .	11.2	*9.9	*8.0	*6.5	9.9	*7.0	9.0	*7.3
Other Asian or Pacific Islander . . . . .	8.1	8.5	7.4	5.5	5.7	5.1	4.8	4.8
Hispanic or Latino <sup>4,5</sup> . . . . .	9.5	8.8	7.5	6.3	5.8	5.7	5.6	5.4
Mexican . . . . .	9.1	8.5	7.2	6.0	5.6	5.5	5.4	5.2
Puerto Rican . . . . .	12.9	11.2	9.9	8.9	7.8	8.3	8.2	8.5
Cuban . . . . .	7.5	8.5	7.2	5.3	*3.7	4.6	4.6	4.2
Central and South American . . . . .	8.5	8.0	6.8	5.5	5.3	4.7	4.6	5.0
Other and unknown Hispanic or Latino . . . . .	10.6	9.5	8.0	7.4	6.5	7.2	6.9	6.0
Not Hispanic or Latino:								
White <sup>5</sup> . . . . .	9.2	8.6	7.2	6.3	6.0	5.8	5.7	5.7
Black or African American <sup>5</sup> . . . . .	19.1	18.3	16.9	14.7	13.9	14.1	13.6	13.5
Neonatal <sup>3</sup> deaths per 1,000 live births								
All mothers . . . . .	7.1	6.8	5.7	4.9	4.8	4.7	4.6	4.5
White . . . . .	6.1	5.8	4.6	4.1	4.0	3.9	3.8	3.8
Black or African American . . . . .	12.5	12.3	11.1	9.6	9.4	9.5	9.1	8.9
American Indian or Alaska Native . . . . .	7.5	6.1	6.1	4.0	5.0	5.0	4.4	4.2
Asian or Pacific Islander . . . . .	5.2	4.8	3.9	3.4	3.9	3.2	3.4	3.1
Chinese . . . . .	5.5	3.3	2.3	2.3	2.7	1.8	2.5	1.9
Japanese . . . . .	*3.7	*3.1	*3.5	*3.3	*2.5	*2.8	*2.6	*2.5
Filipino . . . . .	5.6	5.1	3.5	3.4	4.6	3.9	4.1	4.0
Hawaiian . . . . .	*7.0	*5.7	*4.3	*4.0	*7.2	*4.9	*6.2	*3.6
Other Asian or Pacific Islander . . . . .	5.0	5.4	4.4	3.7	3.9	3.3	3.4	3.2
Hispanic or Latino <sup>4,5</sup> . . . . .	6.2	5.7	4.8	4.1	3.9	3.9	3.8	3.6
Mexican . . . . .	5.9	5.4	4.5	3.9	3.7	3.7	3.6	3.5
Puerto Rican . . . . .	8.7	7.6	6.9	6.1	5.2	5.9	5.8	6.0
Cuban . . . . .	*5.0	6.2	5.3	*3.6	*2.7	*3.5	*3.2	*2.5
Central and South American . . . . .	5.8	5.6	4.4	3.7	3.6	3.3	3.3	3.4
Other and unknown Hispanic or Latino . . . . .	6.4	5.6	5.0	4.8	4.5	4.8	4.6	3.9
Not Hispanic or Latino:								
White <sup>5</sup> . . . . .	5.9	5.6	4.5	4.0	3.9	3.8	3.8	3.8
Black or African American <sup>5</sup> . . . . .	12.0	11.9	11.0	9.6	9.4	9.6	9.2	9.0
Postneonatal <sup>3</sup> deaths per 1,000 live births								
All mothers . . . . .	3.8	3.6	3.2	2.6	2.4	2.3	2.3	2.3
White . . . . .	3.2	3.1	2.7	2.2	2.0	1.9	1.9	1.9
Black or African American . . . . .	6.7	6.3	5.9	5.0	4.4	4.5	4.3	4.4
American Indian or Alaska Native . . . . .	7.7	7.0	7.0	5.1	4.4	4.3	3.9	5.4
Asian or Pacific Islander . . . . .	3.1	2.9	2.7	1.9	1.7	1.7	1.4	1.6
Chinese . . . . .	4.0	*2.5	*2.0	*1.5	*1.3	*1.2	*1.0	*1.3
Japanese . . . . .	*	*2.9	*	*	*	*	*	*
Filipino . . . . .	*2.8	2.7	2.5	2.2	1.6	1.9	1.6	*1.5
Hawaiian . . . . .	*4.2	*4.3	*3.8	*	*	*	*	*3.7
Other Asian or Pacific Islander . . . . .	3.0	3.0	3.0	1.9	1.8	1.8	1.4	1.6
Hispanic or Latino <sup>4,5</sup> . . . . .	3.3	3.2	2.7	2.1	1.9	1.8	1.8	1.8
Mexican . . . . .	3.2	3.2	2.7	2.1	1.9	1.8	1.8	1.7
Puerto Rican . . . . .	4.2	3.5	3.0	2.8	2.6	2.4	2.4	2.5
Cuban . . . . .	*2.5	*2.3	*1.9	*1.7	*	*	*	*1.7
Central and South American . . . . .	2.6	2.4	2.4	1.9	1.7	1.4	1.4	1.6
Other and unknown Hispanic or Latino . . . . .	4.2	3.9	3.0	2.6	2.0	2.5	2.3	2.1
Not Hispanic or Latino:								
White <sup>5</sup> . . . . .	3.2	3.0	2.7	2.2	2.0	1.9	1.9	1.9
Black or African American <sup>5</sup> . . . . .	7.0	6.4	5.9	5.0	4.5	4.6	4.4	4.5

See footnotes at end of table.

**Table 19 (page 2 of 2). Infant, neonatal, and postneonatal mortality rates, according to detailed race and Hispanic origin of mother: United States, selected years 1983–2001**

[Data are based on linked birth and death certificates for infants]

<i>Race and Hispanic origin of mother</i>	<i>1983–85<sup>1,6</sup></i>	<i>1986–88<sup>1,6</sup></i>	<i>1989–91<sup>1,6</sup></i>	<i>1996–98<sup>2,6</sup></i>	<i>1999–2001<sup>2,6</sup></i>
Infant <sup>3</sup> deaths per 1,000 live births					
All mothers . . . . .	10.6	9.8	9.0	7.2	6.9
White . . . . .	9.0	8.2	7.4	6.0	5.7
Black or African American . . . . .	18.7	17.9	17.1	13.9	13.6
American Indian or Alaska Native . . . . .	13.9	13.2	12.6	9.3	9.1
Asian or Pacific Islander . . . . .	8.3	7.3	6.6	5.2	4.8
Chinese . . . . .	7.4	5.8	5.1	3.4	3.2
Japanese . . . . .	6.0	6.9	5.3	4.3	4.0
Filipino . . . . .	8.2	6.9	6.4	5.9	5.7
Hawaiian . . . . .	11.3	11.1	9.0	8.2	7.8
Other Asian or Pacific Islander . . . . .	8.6	7.6	7.0	5.5	4.9
Hispanic or Latino <sup>4,5</sup> . . . . .	9.2	8.3	7.5	5.9	5.6
Mexican . . . . .	8.8	7.9	7.2	5.8	5.4
Puerto Rican . . . . .	12.3	11.1	10.4	8.1	8.4
Cuban . . . . .	8.0	7.3	6.2	4.7	4.5
Central and South American . . . . .	8.2	7.5	6.6	5.2	4.8
Other and unknown Hispanic or Latino . . . . .	9.8	9.0	8.2	6.8	6.7
Not Hispanic or Latino:					
White <sup>5</sup> . . . . .	8.8	8.1	7.3	6.0	5.7
Black or African American <sup>5</sup> . . . . .	18.5	17.9	17.2	13.9	13.7
Neonatal <sup>3</sup> deaths per 1,000 live births					
All mothers . . . . .	6.9	6.3	5.7	4.8	4.6
White . . . . .	5.9	5.2	4.7	4.0	3.8
Black or African American . . . . .	12.2	11.7	11.1	9.3	9.2
American Indian or Alaska Native . . . . .	6.7	5.9	5.9	4.7	4.5
Asian or Pacific Islander . . . . .	5.2	4.5	3.9	3.5	3.2
Chinese . . . . .	4.3	3.3	2.7	2.3	2.1
Japanese . . . . .	3.4	4.4	3.0	2.6	2.6
Filipino . . . . .	5.3	4.5	4.0	4.1	4.0
Hawaiian . . . . .	7.4	7.1	4.8	5.6	4.9
Other Asian or Pacific Islander . . . . .	5.5	4.7	4.2	3.6	3.3
Hispanic or Latino <sup>4,5</sup> . . . . .	6.0	5.3	4.8	3.9	3.8
Mexican . . . . .	5.7	5.0	4.5	3.8	3.6
Puerto Rican . . . . .	8.3	7.2	7.0	5.4	5.9
Cuban . . . . .	5.9	5.3	4.6	3.5	3.1
Central and South American . . . . .	5.7	4.9	4.4	3.6	3.3
Other and unknown Hispanic or Latino . . . . .	6.1	5.8	5.2	4.5	4.4
Not Hispanic or Latino:					
White <sup>5</sup> . . . . .	5.7	5.1	4.6	3.9	3.8
Black or African American <sup>5</sup> . . . . .	11.8	11.4	11.1	9.3	9.2
Postneonatal <sup>3</sup> deaths per 1,000 live births					
All mothers . . . . .	3.7	3.5	3.3	2.5	2.3
White . . . . .	3.1	3.0	2.7	2.1	1.9
Black or African American . . . . .	6.4	6.2	6.0	4.6	4.4
American Indian or Alaska Native . . . . .	7.2	7.3	6.7	4.6	4.5
Asian or Pacific Islander . . . . .	3.1	2.8	2.6	1.8	1.6
Chinese . . . . .	3.1	2.5	2.4	1.2	1.1
Japanese . . . . .	2.6	2.5	2.2	*1.7	*1.4
Filipino . . . . .	2.9	2.4	2.3	1.9	1.7
Hawaiian . . . . .	3.9	4.0	4.1	*2.6	2.9
Other Asian or Pacific Islander . . . . .	3.1	2.9	2.8	1.8	1.6
Hispanic or Latino <sup>4,5</sup> . . . . .	3.2	3.0	2.7	2.0	1.8
Mexican . . . . .	3.2	2.9	2.7	2.0	1.8
Puerto Rican . . . . .	4.0	3.9	3.4	2.7	2.5
Cuban . . . . .	2.2	2.0	1.6	*1.3	1.4
Central and South American . . . . .	2.5	2.6	2.2	1.6	1.5
Other and unknown Hispanic or Latino . . . . .	3.7	3.2	3.0	2.3	2.3
Not Hispanic or Latino:					
White <sup>5</sup> . . . . .	3.1	3.0	2.7	2.1	1.9
Black or African American <sup>5</sup> . . . . .	6.7	6.5	6.1	4.6	4.5

\* Estimates are considered unreliable. Rates preceded by an asterisk are based on fewer than 50 events. Rates not shown are based on fewer than 20 events.

<sup>1</sup>Rates based on unweighted birth cohort data.

<sup>2</sup>Rates based on a period file using weighted data. See Appendix I, National Vital Statistics System, Linked Birth/Infant Death Data Set.

<sup>3</sup>Infant (under 1 year of age), neonatal (under 28 days), and postneonatal (28 days–11 months).

<sup>4</sup>Persons of Hispanic origin may be of any race.

<sup>5</sup>Prior to 1995, data shown only for States with an Hispanic-origin item on their birth certificates. See Appendix II, Hispanic origin.

<sup>6</sup>Average annual mortality rate.

NOTES: The race groups white, black, American Indian or Alaska Native, and Asian or Pacific Islander include persons of Hispanic and non-Hispanic origin. National linked files do not exist for 1992–94. Some data for previous years have been revised and differ from the previous edition of *Health, United States*. Data for additional years are available. See Appendix III.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System, Linked Birth/Infant Death Data Set.

**Table 20. Infant mortality rates for mothers 20 years of age and over, according to mother's education, detailed race, and Hispanic origin: United States, selected years 1983–2001**

[Data are based on linked birth and death certificates for infants]

<i>Education, race, and Hispanic origin of mother</i>	1983 <sup>1</sup>	1990 <sup>1</sup>	1995 <sup>2</sup>	2000 <sup>2</sup>	2001 <sup>2</sup>	1983–85 <sup>1</sup>	1986–88 <sup>1</sup>	1989–91 <sup>1</sup>	1996–98 <sup>2</sup>	1999–2001 <sup>2</sup>
Less than 12 years of education						Infant deaths per 1,000 live births				
All mothers . . . . .	15.0	10.8	8.9	7.9	7.6	14.6	13.8	11.1	8.3	7.9
White . . . . .	12.5	9.0	7.6	6.8	6.5	12.4	11.4	9.2	7.1	6.7
Black or African American . . . . .	23.4	19.5	17.0	14.7	14.0	21.8	21.1	20.3	15.3	14.5
American Indian or Alaska Native . . . . .	14.5	14.3	12.7	10.1	12.9	15.2	16.8	13.8	10.3	11.3
Asian or Pacific Islander <sup>3</sup> . . . . .	9.7	6.6	5.7	5.9	5.5	9.5	8.2	6.9	5.9	5.6
Hispanic or Latino <sup>4,5</sup> . . . . .	10.9	7.3	6.0	5.4	5.1	10.6	9.9	7.5	5.6	5.3
Mexican . . . . .	8.7	7.0	5.8	5.2	4.9	9.5	8.3	7.1	5.4	5.2
Puerto Rican . . . . .	15.3	10.1	10.6	9.6	7.8	14.1	12.8	11.7	8.6	8.9
Cuban . . . . .	*14.5	*	*	*	*	*10.5	*9.4	*8.2	*7.1	*
Central and South American . . . . .	9.8	7.0	5.1	4.9	5.0	8.6	9.2	6.8	5.6	4.8
Other and unknown Hispanic or Latino . . . . .	9.2	9.9	7.3	7.6	5.8	10.1	10.6	10.0	7.1	6.8
Not Hispanic or Latino:										
White <sup>5</sup> . . . . .	12.8	10.9	9.9	9.2	9.0	12.6	11.8	11.0	9.4	9.1
Black or African American <sup>5</sup> . . . . .	24.7	19.7	17.3	15.0	14.3	22.6	21.6	20.6	15.6	14.8
12 years of education										
All mothers . . . . .	10.2	8.8	7.8	7.3	7.3	10.0	9.6	8.9	7.5	7.3
White . . . . .	8.7	7.1	6.4	6.0	6.0	8.5	8.0	7.2	6.2	6.0
Black or African American . . . . .	17.8	16.0	14.7	13.3	12.9	17.7	17.1	16.4	13.9	13.4
American Indian or Alaska Native . . . . .	15.5	13.4	7.9	7.8	9.6	13.4	11.6	12.3	8.9	8.8
Asian or Pacific Islander <sup>3</sup> . . . . .	10.0	7.5	5.5	5.0	5.9	9.3	7.9	7.5	5.8	5.5
Hispanic or Latino <sup>4,5</sup> . . . . .	8.4	7.0	5.9	5.0	5.1	9.1	8.3	6.8	5.7	5.1
Mexican . . . . .	6.9	6.8	5.7	4.9	4.7	7.8	8.2	6.5	5.4	4.9
Puerto Rican . . . . .	9.5	8.5	6.5	7.2	9.2	10.8	10.1	8.6	7.8	8.1
Cuban . . . . .	*6.9	*8.0	*	*	*	8.6	6.6	7.6	5.5	*3.5
Central and South American . . . . .	8.7	6.5	6.1	4.2	4.8	8.7	7.4	6.3	5.3	4.6
Other and unknown Hispanic or Latino . . . . .	8.8	7.4	6.5	5.8	5.6	8.8	7.7	7.0	6.4	6.0
Not Hispanic or Latino:										
White <sup>5</sup> . . . . .	8.7	7.1	6.5	6.3	6.2	8.3	7.9	7.3	6.3	6.2
Black or African American <sup>5</sup> . . . . .	17.8	16.1	14.8	13.5	13.1	17.9	17.4	16.5	14.0	13.6
13 years or more of education										
All mothers . . . . .	8.1	6.4	5.4	5.0	5.1	7.8	7.2	6.4	5.3	5.1
White . . . . .	7.2	5.4	4.7	4.2	4.3	6.9	6.2	5.5	4.5	4.3
Black or African American . . . . .	15.3	13.7	11.9	11.4	11.7	15.3	14.9	13.7	11.3	11.5
American Indian or Alaska Native . . . . .	12.5	6.8	5.9	6.7	6.7	10.4	8.4	8.1	6.9	6.9
Asian or Pacific Islander <sup>3</sup> . . . . .	6.6	5.1	4.4	3.9	3.7	6.7	5.9	5.1	4.2	3.9
Hispanic or Latino <sup>4,5</sup> . . . . .	9.0	5.7	5.0	4.5	4.6	7.4	7.0	5.8	4.9	4.6
Mexican . . . . .	*8.3	5.5	5.2	4.5	4.7	7.6	6.4	5.7	5.0	4.7
Puerto Rican . . . . .	10.9	7.3	6.3	6.5	5.9	8.1	6.9	7.8	6.2	6.2
Cuban . . . . .	*	*5.3	*5.3	*4.9	*4.0	5.5	5.9	4.2	3.6	4.4
Central and South American . . . . .	*7.1	5.6	3.7	3.7	4.1	7.2	7.6	5.4	4.1	3.9
Other and unknown Hispanic or Latino . . . . .	11.6	5.4	5.2	4.2	3.8	7.9	7.5	5.6	4.8	4.2
Not Hispanic or Latino:										
White <sup>5</sup> . . . . .	7.0	5.4	4.6	4.2	4.3	6.8	6.1	5.4	4.5	4.2
Black or African American <sup>5</sup> . . . . .	14.8	13.7	12.0	11.5	11.8	14.7	14.9	13.8	11.4	11.6

\* Estimates are considered unreliable. Rates preceded by an asterisk are based on fewer than 50 events. Rates not shown are based on fewer than 20 events.

<sup>1</sup>Rates based on unweighted birth cohort data.

<sup>2</sup>Rates based on a period file using weighted data. See Appendix I, National Vital Statistics System, Linked Birth/Infant Death Data Set.

<sup>3</sup>The States not reporting maternal education on the birth certificate accounted for 49–51 percent of the Asian or Pacific Islander births in the United States in 1983–87, 59 percent in 1988, and 12 percent in 1989–91. Starting in 1992 maternal education was reported by all 50 States and the District of Columbia (DC).

<sup>4</sup>Persons of Hispanic origin may be of any race.

<sup>5</sup>Prior to 1995, data shown only for States with an Hispanic-origin item and education of mother on their birth certificates. See Appendix II, Education; Hispanic origin. The Hispanic-reporting States that did not report maternal education on the birth certificate during 1983–88 together accounted for 28–85 percent of the births in each Hispanic subgroup (except Cuban, 11–16 percent, and Puerto Rican, 6–7 percent in 1983–87); and in 1989–91 accounted for 27–39 percent of Central and South American and Puerto Rican births and 2–9 percent of births in other Hispanic subgroups.

NOTES: Prior to 1995, data for all mothers and by race are shown only for states reporting education of mother on their birth certificates. See Appendix II, Education. The race groups white, black, American Indian or Alaska Native, and Asian or Pacific Islander include persons of Hispanic and non-Hispanic origin. Persons of Hispanic origin may be of any race. National linked files do not exist for 1992–94. Data for additional years are available. See Appendix III.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System, Linked Birth/Infant Death Data Set.

**Table 21. Infant mortality rates according to birthweight: United States, selected years 1983–2001**

[Data are based on linked birth and death certificates for infants]

<i>Birthweight</i>	1983 <sup>1</sup>	1985 <sup>1</sup>	1990 <sup>1</sup>	1991 <sup>1</sup>	1995 <sup>2</sup>	1997 <sup>2</sup>	1998 <sup>2</sup>	1999 <sup>2</sup>	2000 <sup>2</sup>	2001 <sup>2</sup>
Infant deaths per 1,000 live births <sup>3</sup>										
All birthweights . . . . .	10.9	10.4	8.9	8.6	7.6	7.2	7.2	7.0	6.9	6.8
Less than 2,500 grams . . . . .	95.9	93.9	78.1	74.3	65.3	62.4	62.3	61.3	60.2	59.4
Less than 1,500 grams . . . . .	400.6	387.7	317.6	305.4	270.7	255.0	252.4	249.5	246.9	246.9
Less than 500 grams . . . . .	890.3	895.9	898.2	889.9	904.9	885.2	869.6	857.7	847.9	856.8
500–999 grams . . . . .	584.2	559.2	440.1	422.6	351.0	324.4	319.4	318.6	313.8	313.0
1,000–1,499 grams . . . . .	162.3	145.4	97.9	91.3	69.6	61.8	60.6	59.2	60.9	59.4
1,500–1,999 grams . . . . .	58.4	54.0	43.8	40.4	33.5	30.6	29.0	29.1	28.7	27.6
2,000–2,499 grams . . . . .	22.5	20.9	17.8	17.0	13.7	12.5	12.7	12.0	11.9	11.4
2,500 grams or more . . . . .	4.7	4.3	3.7	3.6	3.0	2.7	2.7	2.6	2.5	2.5
2,500–2,999 grams . . . . .	8.8	7.9	6.7	6.7	5.5	5.0	4.9	4.7	4.6	4.5
3,000–3,499 grams . . . . .	4.4	4.3	3.7	3.5	2.9	2.6	2.6	2.5	2.4	2.3
3,500–3,999 grams . . . . .	3.2	3.0	2.6	2.5	2.0	1.9	1.8	1.7	1.7	1.7
4,000 grams or more . . . . .	3.3	3.2	2.4	2.4	2.0	1.8	1.7	1.8	1.6	1.6
4,000–4,499 grams . . . . .	2.9	2.9	2.2	2.2	1.8	1.7	1.7	1.6	1.5	1.5
4,500–4,999 grams . . . . .	3.9	3.8	2.5	3.0	2.2	2.0	2.0	1.9	2.1	2.0
5,000 grams or more <sup>4</sup> . . . . .	14.4	14.7	9.8	8.2	8.5	*4.2	*4.3	*7.9	*6.1	*6.5

\* Estimates are considered unreliable. Rates preceded by an asterisk are based on fewer than 50 events.

<sup>1</sup>Rates based on unweighted birth cohort data.<sup>2</sup>Rates based on a period file using weighted data; not stated birthweight imputed when period of gestation is known and proportionately distributed when period of gestation is unknown. See Appendix I, National Vital Statistics System, Linked Birth/Infant Death Data Set.<sup>3</sup>For calculation of birthweight-specific infant mortality rates, unknown birthweight has been distributed in proportion to known birthweight separately for live births (denominator) and infant deaths (numerator).<sup>4</sup>In 1989 a birthweight-gestational age consistency check instituted for the natality file resulted in a decrease in the number of deaths to infants coded with birthweights of 5,000 grams or more and a discontinuity in the mortality trend for infants weighing 5,000 grams or more at birth. Starting with 1989 the rates are believed to be more accurate.

NOTES: National linked files do not exist for 1992–94. Data for additional years are available. See Appendix III.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System, Linked Birth/Infant Death Data Set.

**Table 22. Infant mortality rates, fetal mortality rates, and perinatal mortality rates, according to race: United States, selected years 1950–2001**

[Data are based on death certificates, fetal death records, and birth certificates]

Race and year	Infant <sup>1</sup>	Neonatal <sup>1</sup>		Postneonatal <sup>1</sup>	Fetal mortality rate <sup>2</sup>	Late fetal mortality rate <sup>3</sup>	Perinatal mortality rate <sup>4</sup>
		Under 28 days	Under 7 days				
All races	Deaths per 1,000 live births						
1950 <sup>5</sup>	29.2	20.5	17.8	8.7	18.4	14.9	32.5
1960 <sup>5</sup>	26.0	18.7	16.7	7.3	15.8	12.1	28.6
1970	20.0	15.1	13.6	4.9	14.0	9.5	23.0
1980	12.6	8.5	7.1	4.1	9.1	6.2	13.2
1985	10.6	7.0	5.8	3.7	7.8	4.9	10.7
1990	9.2	5.8	4.8	3.4	7.5	4.3	9.1
1995	7.6	4.9	4.0	2.7	7.0	3.6	7.6
1996	7.3	4.8	3.8	2.5	6.9	3.6	7.4
1997	7.2	4.8	3.8	2.5	6.8	3.5	7.3
1998	7.2	4.8	3.8	2.4	6.7	3.4	7.2
1999	7.1	4.7	3.8	2.3	6.7	3.4	7.1
2000	6.9	4.6	3.7	2.3	6.6	3.3	7.0
2001	6.8	4.5	3.6	2.3	6.5	3.3	6.9
Race of child: <sup>6</sup> White							
1950 <sup>5</sup>	26.8	19.4	17.1	7.4	16.6	13.3	30.1
1960 <sup>5</sup>	22.9	17.2	15.6	5.7	13.9	10.8	26.2
1970	17.8	13.8	12.5	4.0	12.3	8.6	21.0
1980	11.0	7.5	6.2	3.5	8.1	5.7	11.9
Race of mother: <sup>7</sup> White							
1980	10.9	7.4	6.1	3.5	8.1	5.7	11.8
1985	9.2	6.0	5.0	3.2	6.9	4.5	9.5
1990	7.6	4.8	3.9	2.8	6.4	3.8	7.7
1995	6.3	4.1	3.3	2.2	5.9	3.3	6.5
1996	6.1	4.0	3.2	2.1	5.9	3.3	6.4
1997	6.0	4.0	3.2	2.0	5.8	3.2	6.3
1998	6.0	4.0	3.1	2.0	5.7	3.1	6.2
1999	5.8	3.9	3.1	1.9	5.7	3.0	6.1
2000	5.7	3.8	3.0	1.9	5.6	2.9	5.9
2001	5.7	3.8	3.0	1.9	5.5	2.9	5.9
Race of child: <sup>6</sup> Black or African American							
1950 <sup>5</sup>	43.9	27.8	23.0	16.1	32.1	---	---
1960 <sup>5</sup>	44.3	27.8	23.7	16.5	---	---	---
1970	32.6	22.8	20.3	9.9	23.2	---	34.5
1980	21.4	14.1	11.9	7.3	14.4	8.9	20.7
Race of mother: <sup>7</sup> Black or African American							
1980	22.2	14.6	12.3	7.6	14.7	9.1	21.3
1985	19.0	12.6	10.8	6.4	12.8	7.2	17.9
1990	18.0	11.6	9.7	6.4	13.3	6.7	16.4
1995	15.1	9.8	8.2	5.3	12.7	5.7	13.8
1996	14.7	9.6	7.8	5.1	12.5	5.5	13.3
1997	14.2	9.4	7.8	4.8	12.5	5.5	13.2
1998	14.3	9.5	7.8	4.8	12.3	5.3	13.1
1999	14.6	9.8	7.9	4.8	12.6	5.4	13.2
2000	14.1	9.4	7.6	4.7	12.4	5.4	13.0
2001	14.0	9.2	7.6	4.8	12.1	5.3	12.8

--- Data not available.

<sup>1</sup>Infant (under 1 year of age), neonatal (under 28 days), early neonatal (under 7 days), and postneonatal (28 days–11 months).

<sup>2</sup>Number of fetal deaths of 20 weeks or more gestation per 1,000 live births plus fetal deaths.

<sup>3</sup>Number of fetal deaths of 28 weeks or more gestation per 1,000 live births plus late fetal deaths.

<sup>4</sup>Number of late fetal deaths plus infant deaths within 7 days of birth per 1,000 live births plus late fetal deaths.

<sup>5</sup>Includes births and deaths of persons who were not residents of the 50 States and the District of Columbia.

<sup>6</sup>Infant deaths are tabulated by race of decedent; live births and fetal deaths are tabulated by race of child. See Appendix II, Race.

<sup>7</sup>Infant deaths are tabulated by race of decedent; fetal deaths and live births are tabulated by race of mother. See Appendix II, Race.

NOTES: Infant mortality rates in this table are based on infant deaths from the mortality file (numerator) and live births from the natality file (denominator).

Inconsistencies in reporting race for the same infant between the birth and death certificate can result in underestimated infant mortality rates for races other than white or black. Infant mortality rates for minority population groups are available from the Linked Birth/Infant Death Data Set and are presented in tables 19–20 and 23–24.

Data for additional years are available. See Appendix III.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System: Arias E, Anderson RN, Kung HC, Murphy SL, Kochanek KD. Deaths: Final data for 2001. National vital statistics reports. vol 52 no 3. Hyattsville, Maryland: National Center for Health Statistics. 2003.

**Table 23 (page 1 of 2). Infant mortality rates, according to race, Hispanic origin, geographic division, and State: United States, average annual 1989–91, 1996–98, and 1999–2001**

[Data are based on linked birth and death certificates for infants]

Geographic division and State	Not Hispanic or Latino								
	All races			White			Black or African American		
	1989–91 <sup>1</sup>	1996–98 <sup>2</sup>	1999–2001 <sup>2</sup>	1989–91 <sup>1</sup>	1996–98 <sup>2</sup>	1999–2001 <sup>2</sup>	1989–91 <sup>1</sup>	1996–98 <sup>2</sup>	1999–2001 <sup>2</sup>
Infant <sup>3</sup> deaths per 1,000 live births									
United States . . . . .	9.0	7.2	6.9	7.3	6.0	5.7	17.2	13.9	13.7
New England <sup>4</sup> . . . . .	7.3	5.7	5.4	6.2	4.7	4.5	15.1	12.3	12.1
Connecticut . . . . .	7.9	6.8	6.2	5.9	4.9	4.7	17.0	15.0	13.3
Maine . . . . .	6.6	5.3	5.3	6.2	5.2	5.3	*	*	*
Massachusetts . . . . .	7.0	5.1	4.9	5.9	4.4	4.1	14.2	10.7	11.1
New Hampshire <sup>4</sup> . . . . .	7.1	4.5	5.2	7.2	4.2	4.5	*	*	*
Rhode Island . . . . .	8.7	6.5	6.3	7.5	4.8	4.6	*13.6	*9.9	*13.0
Vermont . . . . .	6.6	6.7	5.9	6.3	6.4	5.7	*	*	*
Middle Atlantic . . . . .	9.2	6.9	6.5	6.6	5.0	5.0	18.5	13.7	12.8
New Jersey . . . . .	8.4	6.5	6.4	6.1	4.3	4.4	17.8	14.1	14.0
New York . . . . .	9.5	6.6	6.2	6.3	4.5	4.8	18.4	12.6	11.4
Pennsylvania . . . . .	9.2	7.5	7.2	7.2	6.0	5.7	19.1	15.8	15.0
East North Central . . . . .	9.8	8.0	7.9	7.7	6.4	6.3	19.1	16.0	16.0
Illinois . . . . .	10.7	8.5	8.2	7.6	6.3	6.1	20.5	17.1	16.4
Indiana . . . . .	9.4	8.1	7.8	8.4	7.2	7.0	17.3	15.2	14.5
Michigan . . . . .	10.5	8.2	8.1	7.7	6.2	5.9	20.7	15.8	16.7
Ohio . . . . .	9.0	7.8	7.8	7.7	6.6	6.6	16.2	14.5	14.9
Wisconsin . . . . .	8.4	7.0	6.8	7.4	5.7	5.7	17.0	16.6	16.8
West North Central . . . . .	8.5	7.0	6.7	7.4	6.2	5.8	17.5	14.9	14.5
Iowa . . . . .	8.2	6.5	5.9	7.8	6.2	5.5	15.8	16.3	15.8
Kansas . . . . .	8.5	7.6	7.1	7.8	7.1	6.7	15.4	14.5	14.1
Minnesota . . . . .	7.3	5.9	5.7	6.4	5.4	5.0	18.5	12.3	11.4
Missouri . . . . .	9.7	7.6	7.4	8.0	6.2	5.9	18.0	15.5	16.0
Nebraska . . . . .	8.1	7.8	6.9	7.2	7.2	6.1	18.3	17.0	13.2
North Dakota . . . . .	8.0	6.8	8.0	7.3	6.4	7.0	*	*	*
South Dakota . . . . .	9.5	7.4	7.1	7.5	6.1	6.2	*	*	*
South Atlantic . . . . .	10.4	8.3	8.0	7.6	6.3	6.0	17.2	14.0	13.8
Delaware . . . . .	11.2	8.4	9.2	8.2	6.7	6.8	20.1	15.2	16.3
District of Columbia . . . . .	20.3	13.8	13.0	*8.2	*	*	23.9	17.2	16.9
Florida . . . . .	9.4	7.3	7.1	7.2	6.1	5.6	16.2	12.4	12.8
Georgia . . . . .	11.9	8.7	8.4	8.4	6.3	6.0	17.9	13.7	13.5
Maryland . . . . .	9.1	8.6	8.0	6.3	5.7	5.1	15.0	14.4	13.6
North Carolina . . . . .	10.7	9.2	8.7	8.0	7.0	6.7	16.9	15.8	15.1
South Carolina . . . . .	11.8	9.2	9.3	8.4	6.0	6.3	17.2	14.8	15.2
Virginia . . . . .	9.9	7.7	7.2	7.4	5.9	5.5	18.0	13.5	13.0
West Virginia . . . . .	9.1	8.3	7.4	8.8	8.0	7.3	*15.7	*15.1	*10.0
East South Central . . . . .	10.4	9.0	8.7	8.1	7.0	6.6	16.5	14.6	14.9
Alabama . . . . .	11.4	10.0	9.5	8.6	7.7	6.8	16.8	14.7	15.2
Kentucky . . . . .	8.7	7.3	6.8	8.1	6.8	6.5	14.4	12.4	10.5
Mississippi . . . . .	11.5	10.5	10.4	7.9	7.0	6.9	15.2	14.6	14.6
Tennessee . . . . .	10.2	8.4	8.5	7.8	6.6	6.5	18.2	15.2	16.0
West South Central <sup>4</sup> . . . . .	8.4	7.1	6.7	7.2	6.5	6.1	14.2	12.0	12.2
Arkansas . . . . .	9.8	9.0	8.2	8.1	7.8	7.5	15.2	13.6	12.2
Louisiana <sup>4</sup> . . . . .	10.2	9.2	9.4	7.5	6.6	6.5	14.3	13.1	13.7
Oklahoma <sup>4</sup> . . . . .	8.0	8.1	8.1	7.3	7.6	7.6	12.7	14.2	14.3
Texas . . . . .	7.9	6.3	5.9	6.9	6.0	5.4	14.1	10.7	10.9
Mountain . . . . .	8.4	6.8	6.3	7.9	6.3	5.8	16.9	13.3	13.3
Arizona . . . . .	8.8	7.4	6.8	8.2	6.9	6.3	17.3	14.0	16.5
Colorado . . . . .	8.7	6.8	6.2	8.0	6.2	5.7	16.7	13.9	12.7
Idaho . . . . .	8.9	7.0	6.9	8.9	6.6	6.6	*	*	*
Montana . . . . .	9.0	7.1	6.6	8.0	6.5	5.9	*	*	*
Nevada . . . . .	8.6	6.6	6.2	7.8	6.7	5.2	16.9	12.9	11.9
New Mexico . . . . .	8.4	6.6	6.6	8.1	6.4	6.9	*17.2	*	*14.7
Utah . . . . .	7.0	5.9	5.0	6.8	5.6	4.8	*	*	*
Wyoming . . . . .	8.4	6.6	6.6	8.0	6.0	6.4	*	*	*
Pacific . . . . .	7.7	5.9	5.5	7.0	5.3	4.8	15.4	12.1	11.3
Alaska . . . . .	9.2	6.9	7.0	7.2	5.4	5.3	*	*	*
California . . . . .	7.6	5.9	5.4	6.9	5.3	4.7	15.4	12.2	11.6
Hawaii . . . . .	7.0	6.5	7.1	5.5	5.5	6.4	*13.6	*	*
Oregon . . . . .	8.0	5.5	5.5	7.4	5.3	5.4	21.3	*10.3	*7.5
Washington . . . . .	8.0	5.7	5.3	7.4	5.3	4.9	15.1	11.4	10.3

See footnotes at end of table.



**Table 23 (page 2 of 2). Infant mortality rates, according to race, Hispanic origin, geographic division, and State: United States, average annual 1989–91, 1996–98, and 1999–2001**

[Data are based on linked birth and death certificates for infants]

Geographic division and State	Hispanic or Latino <sup>5</sup>			American Indian or Alaska Native <sup>6</sup>			Asian or Pacific Islander <sup>6</sup>		
	1989–91 <sup>1</sup>	1996–98 <sup>2</sup>	1999–2001 <sup>2</sup>	1989–91 <sup>1</sup>	1996–98 <sup>2</sup>	1999–2001 <sup>2</sup>	1989–91 <sup>1</sup>	1996–98 <sup>2</sup>	1999–2001 <sup>2</sup>
Infant <sup>3</sup> deaths per 1,000 live births									
United States . . . . .	7.5	5.9	5.6	12.6	9.3	9.1	6.6	5.2	4.8
New England <sup>7</sup> . . . . .	8.1	7.7	6.6	*	*	*	5.8	3.5	4.1
Connecticut . . . . .	7.9	9.0	7.5	*	*	*	*	*	*
Maine . . . . .	*	*	*	*	*	*	*	*	*
Massachusetts . . . . .	8.3	6.4	5.5	*	*	*	5.7	*3.2	3.8
New Hampshire <sup>7</sup> . . . . .	---	*	*	*	*	*	*	*	*
Rhode Island . . . . .	*7.2	9.5	*7.9	*	*	*	*	*	*
Vermont . . . . .	*	*	*	*	*	*	*	*	*
Middle Atlantic . . . . .	9.1	6.4	6.3	*11.6	*	*6.5	6.4	4.4	3.6
New Jersey . . . . .	7.5	6.7	6.3	*	*	*	5.6	4.7	3.7
New York . . . . .	9.4	6.0	5.8	*15.2	*	*	6.4	4.1	3.6
Pennsylvania . . . . .	10.9	8.7	9.0	*	*	*	7.8	5.2	*3.7
East North Central . . . . .	8.7	7.2	6.8	11.6	9.3	9.2	6.1	5.9	5.8
Illinois . . . . .	9.2	6.9	6.9	*	*	*	6.0	5.9	6.7
Indiana . . . . .	*7.2	7.5	6.8	*	*	*	*	*8.2	*
Michigan . . . . .	7.9	6.8	6.5	*10.7	*10.6	*	*6.1	*4.9	6.0
Ohio . . . . .	8.0	7.8	7.5	*	*	*	*4.8	*6.1	*4.2
Wisconsin . . . . .	*7.3	10.3	6.4	*11.9	*9.6	*10.1	*6.7	*5.9	*5.0
West North Central . . . . .	9.3	6.4	6.6	17.1	13.1	11.2	7.4	6.3	6.1
Iowa . . . . .	*11.9	*5.2	*6.6	*	*	*	*	*	*
Kansas . . . . .	8.7	6.3	6.3	*	*	*	*	*	*
Minnesota . . . . .	*8.4	*6.2	6.8	17.3	15.3	*10.8	*5.1	6.7	7.4
Missouri . . . . .	*9.1	*5.7	*5.7	*	*	*	*9.1	*	*
Nebraska . . . . .	*8.8	8.6	7.6	*18.2	*	*17.3	*	*	*
North Dakota . . . . .	*	*	*	*13.8	*11.0	*15.2	*	*	*
South Dakota . . . . .	*	*	*	19.9	14.4	11.7	*	*	*
South Atlantic . . . . .	7.4	5.3	5.3	12.7	11.1	8.5	6.8	5.3	5.2
Delaware . . . . .	*	*	*8.2	*	*	*	*	*	*
District of Columbia . . . . .	*8.8	*	*8.5	*	*	*	*	*	*
Florida . . . . .	7.1	4.9	5.0	*	*	*	*6.2	4.9	4.9
Georgia . . . . .	9.0	5.6	5.1	*	*	*	*8.2	*4.4	6.2
Maryland . . . . .	7.2	5.8	6.1	*	*	*	7.5	6.3	*4.8
North Carolina . . . . .	*7.5	6.0	5.9	12.2	13.4	11.6	*6.3	*5.2	6.9
South Carolina . . . . .	*	*8.3	*4.4	*	*	*	*	*	*
Virginia . . . . .	7.6	5.9	4.9	*	*	*	6.0	5.3	4.6
West Virginia . . . . .	*	*	*	*	*	*	*	*	*
East South Central . . . . .	*5.9	6.9	6.2	*	*	*10.0	*7.7	*6.2	*5.6
Alabama . . . . .	*	*8.4	*7.0	*	*	*	*	*	*
Kentucky . . . . .	*	*	*	*	*	*	*	*	*
Mississippi . . . . .	*	*	*	*	*	*	*	*	*
Tennessee . . . . .	*	*6.8	6.3	*	*	*	*	*	*5.8
West South Central <sup>7</sup> . . . . .	7.0	5.6	5.1	8.4	7.8	8.2	6.7	4.9	4.2
Arkansas . . . . .	*	*8.4	*4.2	*	*	*	*	*	*
Louisiana <sup>7</sup> . . . . .	---	*	*5.3	*	*	*	*	*6.9	*
Oklahoma <sup>7</sup> . . . . .	---	5.8	4.9	7.8	8.0	8.4	*	*	*
Texas . . . . .	7.0	5.6	5.1	*	*	*	6.8	4.9	3.9
Mountain . . . . .	7.9	7.0	6.2	11.6	8.8	9.0	8.1	6.0	5.7
Arizona . . . . .	8.0	7.4	6.3	11.4	9.0	9.3	*8.5	*5.3	*5.2
Colorado . . . . .	8.5	7.3	6.1	*16.5	*	*	*7.8	*5.7	*6.2
Idaho . . . . .	*7.2	7.3	8.1	*	*	*	*	*	*
Montana . . . . .	*	*	*	16.7	*10.2	*11.7	*	*	*
Nevada . . . . .	7.0	5.1	5.5	*	*	*15.8	*	*5.3	*5.4
New Mexico . . . . .	7.8	6.6	6.3	9.8	7.2	7.1	*	*	*
Utah . . . . .	*7.0	6.5	5.9	*10.0	*	*	*10.7	*7.6	*7.0
Wyoming . . . . .	*	*	*	*	*	*	*	*	*
Pacific . . . . .	7.1	5.5	5.2	14.6	8.8	9.3	6.5	5.4	4.9
Alaska . . . . .	*	*	*	15.7	9.8	11.9	*	*	*
California . . . . .	7.0	5.4	5.1	11.0	8.5	7.9	6.4	5.1	4.5
Hawaii . . . . .	10.7	*6.9	*6.6	*	*	*	7.1	6.8	7.2
Oregon . . . . .	8.5	6.1	6.4	*15.7	*	*9.5	*8.4	*5.1	*4.0
Washington . . . . .	7.6	5.0	4.9	19.6	*9.1	8.9	6.2	5.4	4.4

\* Estimates are considered unreliable. Rates preceded by an asterisk are based on fewer than 50 events. Rates not shown are based on fewer than 20 events.

--- Data not available. <sup>1</sup>Rates based on unweighted birth cohort data.

<sup>2</sup>Rates based on period file using weighted data. See Appendix I, National Vital Statistics System, Linked Birth/Infant Death Data Set.

<sup>3</sup>Under 1 year of age.

<sup>4</sup>Rates for white and black are substituted for non-Hispanic white and non-Hispanic black for Louisiana 1989, Oklahoma 1989–90, and New Hampshire 1989–91.

<sup>5</sup>Persons of Hispanic origin may be of any race.

<sup>6</sup>Includes persons of Hispanic origin.

<sup>7</sup>Rates for Hispanic origin exclude data from States not reporting Hispanic origin on the birth certificate for 1 or more years in a 3-year period.

NOTE: National linked files do not exist for 1992–94.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System, Linked Birth/Infant Death Data Set.



**Table 24 (page 1 of 2). Neonatal mortality rates, according to race, Hispanic origin, geographic division, and State: United States, average annual 1989–91, 1996–98, and 1999–2001**

[Data are based on linked birth and death certificates for infants]

Geographic division and State	Not Hispanic or Latino								
	All races			White			Black or African American		
	1989–91 <sup>1</sup>	1996–98 <sup>2</sup>	1999–2001 <sup>2</sup>	1989–91 <sup>1</sup>	1996–98 <sup>2</sup>	1999–2001 <sup>2</sup>	1989–91 <sup>1</sup>	1996–98 <sup>2</sup>	1999–2001 <sup>2</sup>
Neonatal <sup>3</sup> deaths per 1,000 live births									
United States . . . . .	5.7	4.8	4.6	4.6	3.9	3.8	11.1	9.3	9.2
New England <sup>4</sup> . . . . .	5.1	4.2	4.1	4.2	3.5	3.4	11.0	8.8	9.2
Connecticut . . . . .	5.7	5.1	4.7	4.2	3.7	3.6	12.5	11.0	9.8
Maine . . . . .	4.5	3.7	4.0	4.2	3.7	3.9	*	*	*
Massachusetts . . . . .	4.9	3.9	3.8	4.1	3.3	3.2	10.4	7.5	8.6
New Hampshire <sup>4</sup> . . . . .	4.3	3.4	3.6	4.4	3.2	3.1	*	*	*
Rhode Island . . . . .	6.4	4.9	4.9	5.3	3.7	3.6	*9.8	*	*9.5
Vermont . . . . .	4.1	4.8	3.6	3.9	4.6	3.7	*	*	*
Middle Atlantic . . . . .	6.3	4.8	4.6	4.6	3.5	3.6	12.3	9.3	8.8
New Jersey . . . . .	5.8	4.6	4.5	4.5	3.1	3.2	11.4	9.5	9.5
New York . . . . .	6.5	4.6	4.4	4.3	3.1	3.4	12.6	8.6	8.0
Pennsylvania . . . . .	6.2	5.3	5.1	4.9	4.2	4.1	12.5	10.9	10.0
East North Central . . . . .	6.3	5.3	5.3	4.9	4.3	4.3	12.1	10.3	10.6
Illinois . . . . .	7.0	5.6	5.6	5.1	4.3	4.3	12.7	10.8	10.8
Indiana . . . . .	6.0	5.3	5.1	5.2	4.7	4.6	11.5	10.0	9.0
Michigan . . . . .	6.9	5.4	5.6	4.9	4.1	4.0	14.0	10.5	11.5
Ohio . . . . .	5.5	5.2	5.3	4.8	4.4	4.4	9.8	9.4	10.2
Wisconsin . . . . .	5.1	4.7	4.5	4.6	3.8	3.8	9.1	10.9	10.2
West North Central . . . . .	5.0	4.5	4.3	4.5	4.0	3.7	10.2	9.8	9.8
Iowa . . . . .	4.8	4.5	3.7	4.5	4.2	3.4	*10.5	*10.8	*10.4
Kansas . . . . .	4.9	4.9	4.7	4.6	4.6	4.3	8.3	9.7	9.7
Minnesota . . . . .	4.3	3.8	3.7	3.9	3.5	3.2	10.7	8.3	7.3
Missouri . . . . .	6.0	4.9	4.9	5.0	3.9	3.8	10.6	10.1	11.0
Nebraska . . . . .	4.5	5.3	4.7	4.2	4.9	4.2	*9.8	*11.8	*8.3
North Dakota . . . . .	5.0	4.2	5.1	4.7	4.3	4.6	*	*	*
South Dakota . . . . .	5.1	3.8	4.0	4.5	3.4	3.7	*	*	*
South Atlantic . . . . .	6.9	5.7	5.5	4.9	4.1	4.0	11.7	9.9	9.7
Delaware . . . . .	7.5	5.8	6.5	5.8	4.1	4.6	12.4	11.9	12.4
District of Columbia . . . . .	14.1	9.1	9.7	*5.2	*	*	16.7	11.5	12.8
Florida . . . . .	6.2	4.7	4.7	4.7	3.9	3.6	10.5	8.2	8.5
Georgia . . . . .	7.9	6.0	5.7	5.5	4.1	4.0	12.0	9.7	9.3
Maryland . . . . .	5.9	6.1	5.8	3.9	3.8	3.6	10.2	10.7	10.0
North Carolina . . . . .	7.3	6.3	6.3	5.3	4.7	4.7	11.9	11.1	11.0
South Carolina . . . . .	7.7	6.5	6.4	5.4	4.0	4.1	11.3	10.9	10.8
Virginia . . . . .	6.8	5.4	4.9	4.8	4.0	3.7	13.0	9.9	9.2
West Virginia . . . . .	5.8	5.3	4.9	5.6	5.2	4.8	*9.7	*9.5	*
East South Central . . . . .	6.6	5.7	5.5	5.0	4.3	4.1	10.6	9.7	9.6
Alabama . . . . .	7.5	6.5	5.9	5.7	4.8	4.1	11.1	10.1	9.8
Kentucky . . . . .	5.0	4.7	4.4	4.6	4.3	4.2	8.9	8.1	6.6
Mississippi . . . . .	7.1	6.6	6.4	4.9	4.2	4.0	9.5	9.5	9.2
Tennessee . . . . .	6.5	5.3	5.5	4.9	4.1	4.1	11.8	9.8	10.6
West South Central <sup>4</sup> . . . . .	5.0	4.4	4.1	4.2	4.0	3.7	8.4	7.5	7.5
Arkansas . . . . .	5.4	5.5	4.7	4.5	4.7	4.1	8.5	8.3	7.4
Louisiana <sup>4</sup> . . . . .	6.3	5.9	6.1	4.8	4.2	4.1	8.5	8.4	8.8
Oklahoma <sup>4</sup> . . . . .	4.4	5.0	4.8	4.1	4.7	4.8	6.3	9.2	7.8
Texas . . . . .	4.7	3.9	3.6	4.1	3.6	3.2	8.5	6.4	6.7
Mountain . . . . .	4.8	4.3	4.1	4.4	3.9	3.7	10.1	8.8	8.9
Arizona . . . . .	5.3	4.8	4.4	4.9	4.5	4.1	11.0	9.6	11.2
Colorado . . . . .	5.0	4.5	4.3	4.7	4.0	3.8	10.9	9.6	10.0
Idaho . . . . .	5.3	4.4	4.6	5.2	4.1	4.3	*	*	*
Montana . . . . .	4.6	4.1	3.8	4.2	3.7	3.5	*	*	*
Nevada . . . . .	4.3	3.7	3.6	3.8	3.4	2.8	*8.3	*7.3	*6.1
New Mexico . . . . .	5.0	3.9	3.8	4.8	4.0	4.0	*	*	*
Utah . . . . .	3.7	3.7	3.3	3.6	3.5	3.2	*	*	*
Wyoming . . . . .	3.9	3.8	4.2	3.8	3.3	4.1	*	*	*
Pacific . . . . .	4.6	3.8	3.6	4.0	3.3	3.2	9.2	7.5	7.3
Alaska . . . . .	4.1	3.3	3.4	3.7	2.9	3.3	*	*	*
California . . . . .	4.6	3.8	3.6	4.1	3.4	3.1	9.2	7.7	7.5
Hawaii . . . . .	4.3	4.3	5.0	3.5	*3.7	*4.9	*	*	*
Oregon . . . . .	4.4	3.3	3.7	4.0	3.0	3.6	*11.6	*	*
Washington . . . . .	4.3	3.6	3.3	3.8	3.3	3.1	9.7	7.5	6.4

See footnotes at end of table.

**Table 24 (page 2 of 2). Neonatal mortality rates, according to race, Hispanic origin, geographic division, and State: United States, average annual 1989–91, 1996–98, and 1999–2001**

[Data are based on linked birth and death certificates for infants]

Geographic division and State	Hispanic or Latino <sup>5</sup>			American Indian or Alaska Native <sup>6</sup>			Asian or Pacific Islander <sup>6</sup>		
	1989–91 <sup>1</sup>	1996–98 <sup>2</sup>	1999–2001 <sup>2</sup>	1989–91 <sup>1</sup>	1996–98 <sup>2</sup>	1999–2001 <sup>2</sup>	1989–91 <sup>1</sup>	1996–98 <sup>2</sup>	1999–2001 <sup>2</sup>
Neonatal <sup>3</sup> deaths per 1,000 live births									
United States . . . . .	4.8	3.9	3.8	5.9	4.7	4.5	3.9	3.5	3.2
New England <sup>7</sup> . . . . .	5.5	5.7	5.0	*	*	*	4.4	*2.7	2.9
Connecticut . . . . .	5.3	6.4	5.8	*	*	*	*	*	*
Maine . . . . .	*	*	*	*	*	*	*	*	*
Massachusetts . . . . .	5.8	5.1	4.2	*	*	*	*3.9	*2.5	*2.5
New Hampshire <sup>7</sup> . . . . .	---	*	*	*	*	*	*	*	*
Rhode Island . . . . .	*4.9	*6.6	*5.7	*	*	*	*	*	*
Vermont . . . . .	*	*	*	*	*	*	*	*	*
Middle Atlantic . . . . .	6.2	4.5	4.3	*	*	*	4.1	3.0	2.4
New Jersey . . . . .	5.1	4.7	4.3	*	*	*	*3.4	3.2	2.3
New York . . . . .	6.4	4.2	4.1	*	*	*	4.1	2.9	2.5
Pennsylvania . . . . .	7.3	6.4	5.7	*	*	*	*5.2	*3.5	*2.4
East North Central . . . . .	5.9	4.8	4.8	*6.2	*5.3	*5.2	3.6	4.1	4.2
Illinois . . . . .	6.4	4.4	4.8	*	*	*	3.9	4.2	4.9
Indiana . . . . .	*4.7	*4.8	5.2	*	*	*	*	*	*
Michigan . . . . .	5.2	4.8	4.3	*	*	*	*	*3.4	*4.2
Ohio . . . . .	*5.4	5.9	5.7	*	*	*	*	*4.5	*
Wisconsin . . . . .	*3.9	8.0	4.2	*	*	*	*	*4.3	*3.9
West North Central . . . . .	5.3	4.5	4.8	6.1	5.8	5.3	4.6	4.1	4.3
Iowa . . . . .	*	*	*4.7	*	*	*	*	*	*
Kansas . . . . .	*5.4	*4.4	4.2	*	*	*	*	*	*
Minnesota . . . . .	*	*4.3	4.8	*4.9	*7.1	*5.4	*3.2	*4.0	5.2
Missouri . . . . .	*	*4.3	*4.3	*	*	*	*	*	*
Nebraska . . . . .	*	*6.3	*5.8	*	*	*	*	*	*
North Dakota . . . . .	*	*	*	*	*	*	*	*	*
South Dakota . . . . .	*	*	*	*8.2	*6.1	*4.5	*	*	*
South Atlantic . . . . .	5.2	3.5	3.7	7.4	7.1	6.2	4.6	3.5	3.8
Delaware . . . . .	*	*	*	*	*	*	*	*	*
District of Columbia . . . . .	*	*	*	*	*	*	*	*	*
Florida . . . . .	5.1	3.1	3.5	*	*	*	*4.4	*3.2	3.6
Georgia . . . . .	*5.7	3.7	3.4	*	*	*	*5.3	*	*4.7
Maryland . . . . .	*4.7	*4.4	4.7	*	*	*	*4.5	*5.0	*3.5
North Carolina . . . . .	*5.5	4.0	4.4	*7.7	*9.7	*9.0	*	*	*5.0
South Carolina . . . . .	*	*	*3.4	*	*	*	*	*	*
Virginia . . . . .	*4.8	4.6	3.4	*	*	*	*4.1	*3.8	*3.2
West Virginia . . . . .	*	*	*	*	*	*	*	*	*
East South Central . . . . .	*	4.6	3.8	*	*	*	*	*4.1	*4.3
Alabama . . . . .	*	*	*3.8	*	*	*	*	*	*
Kentucky . . . . .	*	*	*	*	*	*	*	*	*
Mississippi . . . . .	*	*	*	*	*	*	*	*	*
Tennessee . . . . .	*	*4.7	*4.2	*	*	*	*	*	*
West South Central <sup>7</sup> . . . . .	4.2	3.5	3.2	4.3	4.3	3.8	4.1	3.1	2.8
Arkansas . . . . .	*	*5.6	*	*	*	*	*	*	*
Louisiana <sup>7</sup> . . . . .	---	*	*	*	*	*	*	*	*
Oklahoma <sup>7</sup> . . . . .	---	*3.3	*2.8	*3.7	4.4	3.9	*	*	*
Texas . . . . .	4.2	3.5	3.2	*	*	*	4.0	3.1	2.5
Mountain . . . . .	4.7	4.6	4.2	5.8	4.2	4.5	4.6	3.9	3.4
Arizona . . . . .	5.0	5.0	4.2	5.4	4.1	5.0	*	*	*
Colorado . . . . .	4.4	5.0	4.5	*	*	*	*	*	*4.1
Idaho . . . . .	*	*4.8	*5.9	*	*	*	*	*	*
Montana . . . . .	*	*	*	*7.6	*	*6.6	*	*	*
Nevada . . . . .	*4.1	3.0	3.7	*	*	*	*	*	*
New Mexico . . . . .	4.9	3.9	3.8	4.9	*3.4	*2.8	*	*	*
Utah . . . . .	*3.6	4.1	3.8	*	*	*	*	*	*
Wyoming . . . . .	*	*	*	*	*	*	*	*	*
Pacific . . . . .	4.5	3.6	3.5	6.5	4.3	4.0	3.7	3.5	3.2
Alaska . . . . .	*	*	*	*5.7	*3.9	*4.2	*	*	*
California . . . . .	4.4	3.6	3.5	6.3	*4.5	*4.0	3.6	3.4	2.9
Hawaii . . . . .	*6.6	*4.5	*4.5	*	*	*	4.2	4.5	4.9
Oregon . . . . .	6.5	4.4	4.5	*	*	*	*5.3	*3.8	*2.9
Washington . . . . .	4.9	3.2	3.3	*8.5	*5.0	*3.5	*2.7	3.3	3.1

\* Estimates are considered unreliable. Rates preceded by an asterisk are based on fewer than 50 events. Rates not shown are based on fewer than 20 events.

--- Data not available. <sup>1</sup>Rates based on unweighted birth cohort data.

<sup>2</sup>Rates based on period file using weighted data. See Appendix I, National Vital Statistics System, Linked Birth/Infant Death Data Set.

<sup>3</sup>Infants under 28 days of age.

<sup>4</sup>Rates for white and black are substituted for non-Hispanic white and non-Hispanic black for Louisiana 1989, Oklahoma 1989–90, and New Hampshire 1989–91.

<sup>5</sup>Persons of Hispanic origin may be of any race. <sup>6</sup>Includes persons of Hispanic origin.

<sup>7</sup>Rates for Hispanic origin exclude data from States not reporting Hispanic origin on the birth certificate for 1 or more years in a 3-year period.

NOTE: National linked files do not exist for 1992–94.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System, Linked Birth/Infant Death Data Set.

**Table 27. Life expectancy at birth, at 65 years of age, and at 75 years of age, according to race and sex: United States, selected years 1900–2001**

[Data are based on death certificates]

Specified age and year	All races			White			Black or African American <sup>1</sup>		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
At birth			Remaining life expectancy in years						
1900 <sup>2,3</sup>	47.3	46.3	48.3	47.6	46.6	48.7	33.0	32.5	33.5
1950 <sup>3</sup>	68.2	65.6	71.1	69.1	66.5	72.2	60.8	59.1	62.9
1960 <sup>3</sup>	69.7	66.6	73.1	70.6	67.4	74.1	63.6	61.1	66.3
1970	70.8	67.1	74.7	71.7	68.0	75.6	64.1	60.0	68.3
1980	73.7	70.0	77.4	74.4	70.7	78.1	68.1	63.8	72.5
1985	74.7	71.1	78.2	75.3	71.8	78.7	69.3	65.0	73.4
1990	75.4	71.8	78.8	76.1	72.7	79.4	69.1	64.5	73.6
1991	75.5	72.0	78.9	76.3	72.9	79.6	69.3	64.6	73.8
1992	75.8	72.3	79.1	76.5	73.2	79.8	69.6	65.0	73.9
1993	75.5	72.2	78.8	76.3	73.1	79.5	69.2	64.6	73.7
1994	75.7	72.4	79.0	76.5	73.3	79.6	69.5	64.9	73.9
1995	75.8	72.5	78.9	76.5	73.4	79.6	69.6	65.2	73.9
1996	76.1	73.1	79.1	76.8	73.9	79.7	70.2	66.1	74.2
1997	76.5	73.6	79.4	77.1	74.3	79.9	71.1	67.2	74.7
1998	76.7	73.8	79.5	77.3	74.5	80.0	71.3	67.6	74.8
1999	76.7	73.9	79.4	77.3	74.6	79.9	71.4	67.8	74.7
2000 <sup>4</sup>	77.0	74.3	79.7	77.6	74.9	80.1	71.9	68.3	75.2
2001 <sup>5</sup>	77.2	74.4	79.8	77.7	75.0	80.2	72.2	68.6	75.5
At 65 years									
1950 <sup>2</sup>	13.9	12.8	15.0	---	12.8	15.1	13.9	12.9	14.9
1960 <sup>2</sup>	14.3	12.8	15.8	14.4	12.9	15.9	13.9	12.7	15.1
1970	15.2	13.1	17.0	15.2	13.1	17.1	14.2	12.5	15.7
1980	16.4	14.1	18.3	16.5	14.2	18.4	15.1	13.0	16.8
1985	16.7	14.5	18.5	16.8	14.5	18.7	15.2	13.0	16.9
1990	17.2	15.1	18.9	17.3	15.2	19.1	15.4	13.2	17.2
1991	17.4	15.3	19.1	17.5	15.4	19.2	15.5	13.4	17.2
1992	17.5	15.4	19.2	17.6	15.5	19.3	15.7	13.5	17.4
1993	17.3	15.3	18.9	17.4	15.4	19.0	15.5	13.4	17.1
1994	17.4	15.5	19.0	17.5	15.6	19.1	15.7	13.6	17.2
1995	17.4	15.6	18.9	17.6	15.7	19.1	15.6	13.6	17.1
1996	17.5	15.7	19.0	17.6	15.8	19.1	15.8	13.9	17.2
1997	17.7	15.9	19.2	17.8	16.0	19.3	16.1	14.2	17.6
1998	17.8	16.0	19.2	17.8	16.1	19.3	16.1	14.3	17.4
1999	17.7	16.1	19.1	17.8	16.1	19.2	16.0	14.3	17.3
2000 <sup>4</sup>	18.0	16.2	19.3	18.0	16.3	19.4	16.2	14.2	17.7
2001 <sup>5</sup>	18.1	16.4	19.4	18.2	16.5	19.5	16.4	14.4	17.9
At 75 years									
1980	10.4	8.8	11.5	10.4	8.8	11.5	9.7	8.3	10.7
1985	10.6	9.0	11.7	10.6	9.0	11.7	10.1	8.7	11.1
1990	10.9	9.4	12.0	11.0	9.4	12.0	10.2	8.6	11.2
1991	11.1	9.5	12.1	11.1	9.5	12.1	10.2	8.7	11.2
1992	11.2	9.6	12.2	11.2	9.6	12.2	10.4	8.9	11.4
1993	10.9	9.5	11.9	11.0	9.5	12.0	10.2	8.7	11.1
1994	11.0	9.6	12.0	11.1	9.6	12.0	10.3	8.9	11.2
1995	11.0	9.7	11.9	11.1	9.7	12.0	10.2	8.8	11.1
1996	11.1	9.8	12.0	11.1	9.8	12.0	10.3	9.0	11.2
1997	11.2	9.9	12.1	11.2	9.9	12.1	10.7	9.3	11.5
1998	11.3	10.0	12.2	11.3	10.0	12.2	10.5	9.2	11.3
1999	11.2	10.0	12.1	11.2	10.0	12.1	10.4	9.2	11.1
2000 <sup>4</sup>	11.4	10.1	12.3	11.4	10.1	12.3	10.7	9.2	11.6
2001 <sup>5</sup>	11.5	10.2	12.4	11.5	10.2	12.3	10.8	9.3	11.7

<sup>1</sup>Data shown for 1900–60 are for the nonwhite population.

<sup>2</sup>Death registration area only. The death registration area increased from 10 States and the District of Columbia in 1900 to the coterminous United States in 1933. See Appendix II, Registration area. <sup>3</sup>Includes deaths of persons who were not residents of the 50 States and the District of Columbia.

<sup>4</sup>Life expectancies (LEs) for 2000 were revised and may differ from those shown previously. LEs for 2000 were computed using population counts from Census 2000 and replace LEs for 2000 using 1990-based postcensal estimates.

<sup>5</sup>Life expectancies for 2001 were computed using 2000-based postcensal estimates.

NOTES: Populations used for computing life expectancy and other life table values for 1991–1999 are postcensal estimates of U.S. resident population, based on the 1990 census. See Appendix I, Population Census and Population Estimates. Beginning in 1997 life table methodology was revised to construct complete life tables by single years of age that extend to age 100. (Anderson RN. Method for Constructing Complete Annual U.S. Life Tables. National Center for Health Statistics. Vital Health Stat 2(129). 1999.) Previously abridged life tables were constructed for 5-year age groups ending with the age group 85 years and over. Life table values for 2000 and 2001 were computed using a slight modification of the new life table method due to a change in the age detail of populations received from the U.S. Census Bureau. Data for additional years are available. See Appendix III.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System; Grove RD, Hetzel AM. Vital statistics rates in the United States, 1940–1960. Washington: U.S. Government Printing Office, 1968; life expectancy trend data available at [www.cdc.gov/nchs/about/major/dvs/mortdata.htm](http://www.cdc.gov/nchs/about/major/dvs/mortdata.htm); Arias E, Anderson RN, Kung HC, Murphy SL, Kochanek KD. Deaths: Final data for 2001. National vital statistics reports. Vol 52 no 3. Hyattsville, Maryland: National Center for Health Statistics. 2003.

**Table 28 (page 1 of 2). Age-adjusted death rates, according to race, Hispanic origin, geographic division, and State: United States, average annual 1979–81, 1989–91, and 1999–2001**

[Data are based on death certificates]

Geographic division and State	All persons			White	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Hispanic or Latino <sup>1</sup>	White, not Hispanic or Latino
	1979–81	1989–91	1999–2001	1999–2001	1999–2001	1999–2001	1999–2001	1999–2001	1999–2001
Age-adjusted death rate per 100,000 population <sup>2</sup>									
United States . . . . .	1,022.8	942.2	869.1	849.6	1,122.8	718.0	510.4	672.1	855.0
New England . . . . .	979.9	882.4	810.8	809.8	913.4	*	411.1	574.3	805.3
Connecticut . . . . .	961.5	857.5	783.9	774.0	942.1	*	385.2	607.3	764.8
Maine . . . . .	1,002.9	918.7	858.8	857.7	877.0	*	651.8	*	853.8
Massachusetts . . . . .	982.6	884.8	814.1	816.7	886.0	*	406.8	594.6	815.0
New Hampshire . . . . .	982.3	891.7	814.4	816.0	769.4	*	486.5	407.2	800.5
Rhode Island . . . . .	990.8	889.6	816.2	813.2	1,002.5	*	447.8	450.5	810.2
Vermont . . . . .	990.2	908.6	818.6	821.0	*	*	*	*	822.8
Middle Atlantic . . . . .	1,059.1	967.8	848.7	835.5	1,009.3	*	427.9	638.5	832.9
New Jersey . . . . .	1,047.5	956.0	849.3	828.2	1,101.6	*	393.5	577.2	836.9
New York . . . . .	1,051.8	973.7	818.3	814.6	904.4	*	438.6	648.7	803.6
Pennsylvania . . . . .	1,076.4	963.4	888.6	864.9	1,183.6	*	437.9	749.9	863.7
East North Central . . . . .	1,048.0	957.9	897.3	869.7	1,179.2	*	441.0	588.4	870.1
Illinois . . . . .	1,063.7	973.8	884.7	846.8	1,199.6	*	439.3	580.4	851.1
Indiana . . . . .	1,048.3	962.0	927.2	911.5	1,174.9	*	404.0	648.3	914.5
Michigan . . . . .	1,050.2	966.0	903.3	865.2	1,190.9	*	435.0	685.7	858.1
Ohio . . . . .	1,070.6	967.4	924.3	903.3	1,150.9	*	422.7	554.5	902.5
Wisconsin . . . . .	956.4	879.1	822.4	810.0	1,098.1	*	532.3	404.2	812.9
West North Central . . . . .	951.6	876.6	835.0	819.6	1,162.7	*	485.4	651.3	816.6
Iowa . . . . .	919.9	848.2	795.0	791.6	1,119.2	*	532.6	665.7	791.9
Kansas . . . . .	940.1	867.2	848.4	837.6	1,153.3	*	349.1	601.6	830.8
Minnesota . . . . .	892.9	825.2	766.8	759.3	1,000.1	1,200.7	579.1	631.3	755.4
Missouri . . . . .	1,033.7	952.4	927.5	903.5	1,203.2	*	403.7	799.6	903.5
Nebraska . . . . .	930.6	867.9	808.9	797.8	1,127.5	1,423.4	427.2	596.3	795.1
North Dakota . . . . .	922.4	818.4	779.7	764.8	*	1,386.9	*	*	742.8
South Dakota . . . . .	941.9	846.4	801.2	766.3	*	1,445.9	*	*	767.9
South Atlantic . . . . .	1,033.1	951.3	886.2	842.1	1,135.8	*	412.2	606.6	854.0
Delaware . . . . .	1,069.7	1,001.9	896.4	866.1	1,092.5	*	422.6	745.6	864.5
District of Columbia . . . . .	1,243.1	1,255.3	1,063.3	687.4	1,282.7	*	509.6	201.1	722.1
Florida . . . . .	960.8	870.9	810.1	785.2	1,079.7	*	333.0	644.7	803.9
Georgia . . . . .	1,094.3	1,037.4	974.0	926.9	1,153.0	*	450.0	398.7	932.1
Maryland . . . . .	1,063.3	985.2	904.5	848.6	1,118.8	*	441.2	222.8	859.9
North Carolina . . . . .	1,050.4	986.0	937.6	887.7	1,172.1	975.6	388.3	299.8	891.4
South Carolina . . . . .	1,104.6	1,030.0	968.7	907.6	1,166.7	*	419.0	326.9	910.8
Virginia . . . . .	1,054.0	963.1	885.2	847.4	1,119.2	*	466.7	484.5	849.8
West Virginia . . . . .	1,100.3	1,031.5	1,007.5	1,007.6	1,132.6	*	*	318.1	1,009.9
East South Central . . . . .	1,079.3	1,031.6	1,003.5	967.6	1,208.4	*	436.1	395.0	970.2
Alabama . . . . .	1,091.2	1,037.9	1,005.0	961.7	1,179.8	*	390.1	259.4	966.0
Kentucky . . . . .	1,088.9	1,024.5	999.8	991.4	1,188.1	*	428.0	796.7	991.3
Mississippi . . . . .	1,108.7	1,071.4	1,041.4	974.7	1,209.6	*	511.9	217.6	978.1
Tennessee . . . . .	1,045.5	1,011.8	987.3	951.8	1,257.7	*	441.4	348.1	954.7
West South Central . . . . .	1,036.8	974.9	926.6	901.0	1,183.3	*	467.3	762.5	918.0
Arkansas . . . . .	1,017.0	996.3	968.3	940.4	1,216.1	*	484.3	294.9	946.8
Louisiana . . . . .	1,132.6	1,074.6	1,012.5	940.8	1,222.0	*	507.7	581.2	945.4
Oklahoma . . . . .	1,025.6	961.4	975.9	973.4	1,201.5	*	498.4	731.0	977.0
Texas . . . . .	1,014.9	947.6	890.4	872.7	1,153.8	*	460.2	770.7	890.5
Mountain . . . . .	961.8	878.2	824.5	819.2	1,017.0	943.3	530.1	778.7	816.7
Arizona . . . . .	951.5	873.5	811.1	800.3	1,021.3	1,013.8	461.2	797.4	791.5
Colorado . . . . .	941.1	856.1	800.1	798.9	1,005.0	538.1	526.3	791.0	793.5
Idaho . . . . .	936.7	856.6	814.6	814.0	1,126.6	953.8	489.7	639.5	815.5
Montana . . . . .	1,013.6	890.2	850.0	831.4	*	1,311.7	*	727.9	827.7
Nevada . . . . .	1,077.4	1,017.4	937.2	945.3	1,067.3	749.7	548.0	556.7	974.2
New Mexico . . . . .	967.1	891.9	828.6	823.1	920.4	873.9	610.8	822.6	808.0
Utah . . . . .	924.9	823.2	787.6	787.5	927.3	865.8	632.6	690.5	788.6
Wyoming . . . . .	1,016.1	897.4	867.8	861.8	999.9	1,220.9	*	822.5	860.7

See footnotes at end of table.

**Table 28 (page 2 of 2). Age-adjusted death rates, according to race, Hispanic origin, geographic division, and State: United States, average annual 1979–81, 1989–91, and 1999–2001**

[Data are based on death certificates]

Geographic division and State	All persons			White	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Hispanic or Latino <sup>1</sup>	White, not Hispanic or Latino
	1979–81	1989–91	1999–2001	1999–2001	1999–2001	1999–2001	1999–2001	1999–2001	1999–2001
Age-adjusted death rate per 100,000 population <sup>2</sup>									
Pacific . . . . .	966.5	900.1	795.8	810.5	1,059.7	*	555.9	647.1	827.3
Alaska . . . . .	1,087.4	944.6	849.9	814.4	899.4	1,117.3	525.8	688.9	816.2
California . . . . .	975.5	911.0	792.8	807.3	1,068.2	*	529.8	647.2	829.8
Hawaii . . . . .	801.2	752.2	678.2	720.0	621.7	*	665.1	1,080.7	708.5
Oregon . . . . .	953.9	893.0	835.5	838.0	1,048.9	*	537.8	537.9	842.6
Washington . . . . .	947.7	869.4	808.7	813.0	1,004.3	995.8	523.8	557.6	816.2

\* Data for States with population under 10,000 in the middle year of a 3-year period or fewer than 50 deaths for the 3-year period are considered unreliable and are not shown. Data for American Indian or Alaska Native in States with more than 10 percent misclassification of American Indian or Alaska Native deaths on death certificates or without information on misclassification are also not shown. (Support Services International, Inc. Methodology for adjusting IHS mortality data for miscoding race-ethnicity of American Indians and Alaska Natives on State death certificates. Report submitted to Indian Health Service. 1996.) Division death rates for American Indian or Alaska Native are not shown when any State within the division does not meet reliability criteria.

<sup>1</sup>Caution should be used when comparing death rates by Hispanic origin and race among States. Estimates of death rates may be affected by several factors including possible misreporting of race and Hispanic origin on the death certificate, migration patterns between U.S. and country of origin for persons who were born outside the U.S., and possible biases in population estimates. See Appendix I, Vital Statistics, Mortality Data and Appendix II, Hispanic origin; Race.

<sup>2</sup>Average annual death rates, age-adjusted using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment. Denominators for rates are resident population estimates for the middle year of each 3-year period, multiplied by 3. The 2000 populations used to compute rates for 1999–2001 are based on Census 2000. Previously rates were based on post-1990 population estimates. See Appendix I, Population Census and Population Estimates.

NOTES: The race groups, white, black, American Indian or Alaska Native, and Asian or Pacific Islander, include persons of Hispanic and non-Hispanic origin. Persons of Hispanic origin may be of any race. Death rates for the American Indian or Alaska Native and Asian or Pacific Islander populations are known to be underestimated. See Appendix II, Race, for a discussion of sources of bias in death rates by race and Hispanic origin.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System; numerator data from annual mortality files; denominator data from State population estimates prepared by the U.S. Bureau of the Census: 1980 from April 1, 1980 MARS Census File; 1990 from April 1, 1990 MARS Census File; 2000 from National Center for Health Statistics. Estimates of the April 1, 2000, United States resident population by age, sex, race, and Hispanic origin, prepared under a collaborative arrangement with the U.S. Census Bureau. Available at: [www.cdc.gov/nchs/about/major/dvs/popbridge/popbridge.htm](http://www.cdc.gov/nchs/about/major/dvs/popbridge/popbridge.htm). 2003.

**Table 29 (page 1 of 4). Age-adjusted death rates for selected causes of death, according to sex, race, and Hispanic origin: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and cause of death<sup>1</sup></i>	<i>1950<sup>2</sup></i>	<i>1960<sup>2</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>2000<sup>3</sup></i>	<i>2001</i>
All persons								
	Age-adjusted death rate per 100,000 population <sup>4</sup>							
All causes . . . . .	1,446.0	1,339.2	1,222.6	1,039.1	938.7	909.8	869.0	854.5
Diseases of heart . . . . .	586.8	559.0	492.7	412.1	321.8	293.4	257.6	247.8
Ischemic heart disease . . . . .	---	---	---	345.2	249.6	219.7	186.8	177.8
Cerebrovascular diseases . . . . .	180.7	177.9	147.7	96.2	65.3	63.1	60.9	57.9
Malignant neoplasms . . . . .	193.9	193.9	198.6	207.9	216.0	209.9	199.6	196.0
Trachea, bronchus, and lung . . . . .	15.0	24.1	37.1	49.9	59.3	58.4	56.1	55.3
Colon, rectum, and anus . . . . .	---	30.3	28.9	27.4	24.5	22.5	20.8	20.1
Prostate <sup>5</sup> . . . . .	28.6	28.7	28.8	32.8	38.4	37.0	30.4	29.1
Breast <sup>6</sup> . . . . .	31.9	31.7	32.1	31.9	33.3	30.5	26.8	26.0
Chronic lower respiratory diseases . . . . .	---	---	---	28.3	37.2	40.1	44.2	43.7
Influenza and pneumonia . . . . .	48.1	53.7	41.7	31.4	36.8	33.4	23.7	22.0
Chronic liver disease and cirrhosis . . . . .	11.3	13.3	17.8	15.1	11.1	9.9	9.5	9.5
Diabetes mellitus . . . . .	23.1	22.5	24.3	18.1	20.7	23.2	25.0	25.3
Human immunodeficiency virus (HIV) disease . . . . .	---	---	---	---	10.2	16.2	5.2	5.0
Unintentional injuries . . . . .	78.0	62.3	60.1	46.4	36.3	34.4	34.9	35.7
Motor vehicle-related injuries . . . . .	24.6	23.1	27.6	22.3	18.5	16.3	15.4	15.3
Suicide <sup>7</sup> . . . . .	13.2	12.5	13.1	12.2	12.5	11.8	10.4	10.7
Homicide <sup>7</sup> . . . . .	5.1	5.0	8.8	10.4	9.4	8.3	5.9	7.1
Male								
All causes . . . . .	1,674.2	1,609.0	1,542.1	1,348.1	1,202.8	1,143.9	1,053.8	1,029.1
Diseases of heart . . . . .	697.0	687.6	634.0	538.9	412.4	371.0	320.0	305.4
Ischemic heart disease . . . . .	---	---	---	459.7	328.2	286.5	241.4	228.5
Cerebrovascular diseases . . . . .	186.4	186.1	157.4	102.2	68.5	65.9	62.4	59.0
Malignant neoplasms . . . . .	208.1	225.1	247.6	271.2	280.4	267.5	248.9	243.7
Trachea, bronchus, and lung . . . . .	24.6	43.6	67.5	85.2	91.1	84.2	76.7	75.2
Colon, rectum, and anus . . . . .	---	31.8	32.3	32.8	30.4	27.4	25.1	24.2
Prostate . . . . .	28.6	28.7	28.8	32.8	38.4	37.0	30.4	29.1
Chronic lower respiratory diseases . . . . .	---	---	---	49.9	55.4	54.8	55.8	54.0
Influenza and pneumonia . . . . .	55.0	65.8	54.0	42.1	47.8	42.8	28.9	26.6
Chronic liver disease and cirrhosis . . . . .	15.0	18.5	24.8	21.3	15.9	14.2	13.4	13.2
Diabetes mellitus . . . . .	18.8	19.9	23.0	18.1	21.7	25.0	27.8	28.1
Human immunodeficiency virus (HIV) disease . . . . .	---	---	---	---	18.5	27.3	7.9	7.5
Unintentional injuries . . . . .	101.8	85.5	87.4	69.0	52.9	49.6	49.3	50.2
Motor vehicle-related injuries . . . . .	38.5	35.4	41.5	33.6	26.5	22.8	21.7	21.8
Suicide <sup>7</sup> . . . . .	21.2	20.0	19.8	19.9	21.5	20.3	17.7	18.2
Homicide <sup>7</sup> . . . . .	7.9	7.5	14.3	16.6	14.8	12.8	9.0	10.8
Female								
All causes . . . . .	1,236.0	1,105.3	971.4	817.9	750.9	739.4	731.4	721.8
Diseases of heart . . . . .	484.7	447.0	381.6	320.8	257.0	236.6	210.9	203.9
Ischemic heart disease . . . . .	---	---	---	263.1	193.9	171.3	146.5	139.9
Cerebrovascular diseases . . . . .	175.8	170.7	140.0	91.7	62.6	60.5	59.1	56.4
Malignant neoplasms . . . . .	182.3	168.7	163.2	166.7	175.7	173.6	167.6	164.7
Trachea, bronchus, and lung . . . . .	5.8	7.5	13.1	24.4	37.1	40.4	41.3	41.0
Colon, rectum, and anus . . . . .	---	29.1	26.5	23.8	20.6	19.1	17.7	17.2
Breast . . . . .	31.9	31.7	32.1	31.9	33.3	30.5	26.8	26.0
Chronic lower respiratory diseases . . . . .	---	---	---	14.9	26.6	31.8	37.4	37.6
Influenza and pneumonia . . . . .	41.9	43.8	32.7	25.1	30.5	28.1	20.7	19.2
Chronic liver disease and cirrhosis . . . . .	7.8	8.7	11.9	9.9	7.1	6.2	6.2	6.2
Diabetes mellitus . . . . .	27.0	24.7	25.1	18.0	19.9	21.8	23.0	23.1
Human immunodeficiency virus (HIV) disease . . . . .	---	---	---	---	2.2	5.3	2.5	2.5
Unintentional injuries . . . . .	54.0	40.0	35.1	26.1	21.5	21.0	22.0	22.5
Motor vehicle-related injuries . . . . .	11.5	11.7	14.9	11.8	11.0	10.3	9.5	9.3
Suicide <sup>7</sup> . . . . .	5.6	5.6	7.4	5.7	4.8	4.3	4.0	4.0
Homicide <sup>7</sup> . . . . .	2.4	2.6	3.7	4.4	4.0	3.7	2.8	3.3

See footnotes at end of table.



**Table 29 (page 2 of 4). Age-adjusted death rates for selected causes of death, according to sex, race, and Hispanic origin: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and cause of death<sup>1</sup></i>	<i>1950<sup>2</sup></i>	<i>1960<sup>2</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>2000<sup>3</sup></i>	<i>2001</i>
Age-adjusted death rate per 100,000 population								
<b>White<sup>8</sup></b>								
All causes . . . . .	1,410.8	1,311.3	1,193.3	1,012.7	909.8	882.3	849.8	836.5
Diseases of heart . . . . .	584.8	559.0	492.2	409.4	317.0	288.6	253.4	243.5
Ischemic heart disease . . . . .	---	---	---	347.6	249.7	219.1	185.6	176.5
Cerebrovascular diseases . . . . .	175.5	172.7	143.5	93.2	62.8	60.7	58.8	55.8
Malignant neoplasms . . . . .	194.6	193.1	196.7	204.2	211.6	206.2	197.2	193.9
Trachea, bronchus, and lung . . . . .	15.2	24.0	36.7	49.2	58.6	58.1	56.2	55.6
Colon, rectum, and anus . . . . .	---	30.9	29.2	27.4	24.1	22.0	20.3	19.6
Prostate <sup>5</sup> . . . . .	28.4	27.7	27.4	30.5	35.5	34.2	27.8	26.6
Breast <sup>6</sup> . . . . .	32.4	32.0	32.5	32.1	33.2	30.1	26.3	25.5
Chronic lower respiratory diseases . . . . .	---	---	---	29.3	38.3	41.5	46.0	45.6
Influenza and pneumonia . . . . .	44.8	50.4	39.8	30.9	36.4	33.0	23.5	21.7
Chronic liver disease and cirrhosis . . . . .	11.5	13.2	16.6	13.9	10.5	9.7	9.6	9.6
Diabetes mellitus . . . . .	22.9	21.7	22.9	16.7	18.8	20.9	22.8	23.0
Human immunodeficiency virus (HIV) disease . . . . .	---	---	---	---	8.3	11.4	2.8	2.6
Unintentional injuries . . . . .	77.0	60.4	57.8	45.3	35.5	33.9	35.1	36.0
Motor vehicle-related injuries . . . . .	24.4	22.9	27.1	22.6	18.5	16.3	15.6	15.6
Suicide <sup>7</sup> . . . . .	13.9	13.1	13.8	13.0	13.4	12.6	11.3	11.7
Homicide <sup>7</sup> . . . . .	2.6	2.7	4.7	6.7	5.5	5.0	3.6	4.9
<b>Black or African American<sup>8</sup></b>								
All causes . . . . .	1,722.1	1,577.5	1,518.1	1,314.8	1,250.3	1,213.9	1,121.4	1,101.2
Diseases of heart . . . . .	586.7	548.3	512.0	455.3	391.5	363.8	324.8	316.9
Ischemic heart disease . . . . .	---	---	---	334.5	267.0	244.9	218.3	211.6
Cerebrovascular diseases . . . . .	233.6	235.2	197.1	129.1	91.6	86.9	81.9	78.8
Malignant neoplasms . . . . .	176.4	199.1	225.3	256.4	279.5	267.7	248.5	243.1
Trachea, bronchus, and lung . . . . .	11.1	23.7	41.3	59.7	72.4	69.0	64.0	62.5
Colon, rectum, and anus . . . . .	---	22.8	26.1	28.3	30.6	29.3	28.2	27.6
Prostate <sup>5</sup> . . . . .	30.9	41.2	48.5	61.1	77.0	76.6	68.1	66.1
Breast <sup>6</sup> . . . . .	25.3	27.9	28.9	31.7	38.1	38.0	34.5	34.4
Chronic lower respiratory diseases . . . . .	---	---	---	19.2	28.1	30.1	31.6	30.9
Influenza and pneumonia . . . . .	76.7	81.1	57.2	34.4	39.4	36.4	25.6	24.1
Chronic liver disease and cirrhosis . . . . .	9.0	13.6	28.1	25.0	16.5	12.0	9.4	9.3
Diabetes mellitus . . . . .	23.5	30.9	38.8	32.7	40.5	46.7	49.5	49.2
Human immunodeficiency virus (HIV) disease . . . . .	---	---	---	---	26.7	54.2	23.3	22.8
Unintentional injuries . . . . .	79.9	74.0	78.3	57.6	43.8	41.0	37.7	37.6
Motor vehicle-related injuries . . . . .	26.0	24.2	31.1	20.2	18.8	16.7	15.7	15.4
Suicide <sup>7</sup> . . . . .	4.5	5.0	6.2	6.5	7.1	6.8	5.5	5.5
Homicide <sup>7</sup> . . . . .	28.3	26.0	44.0	39.0	36.3	29.7	20.5	21.2
<b>American Indian or Alaska Native<sup>8</sup></b>								
All causes . . . . .	---	---	---	867.0	716.3	771.2	709.3	686.7
Diseases of heart . . . . .	---	---	---	240.6	200.6	204.6	178.2	159.6
Ischemic heart disease . . . . .	---	---	---	173.6	139.1	141.4	129.1	114.0
Cerebrovascular diseases . . . . .	---	---	---	57.8	40.7	48.6	45.0	41.3
Malignant neoplasms . . . . .	---	---	---	113.7	121.8	138.2	127.8	131.0
Trachea, bronchus, and lung . . . . .	---	---	---	20.7	30.9	37.4	32.3	34.2
Colon, rectum, and anus . . . . .	---	---	---	9.5	12.0	14.9	13.4	12.0
Prostate <sup>5</sup> . . . . .	---	---	---	20.7	17.8	21.7	19.6	19.0
Breast <sup>6</sup> . . . . .	---	---	---	10.8	13.7	15.0	13.6	11.8
Chronic lower respiratory diseases . . . . .	---	---	---	14.2	25.4	27.6	32.8	30.0
Influenza and pneumonia . . . . .	---	---	---	44.4	36.1	36.1	22.3	22.5
Chronic liver disease and cirrhosis . . . . .	---	---	---	45.3	24.1	27.4	24.3	22.6
Diabetes mellitus . . . . .	---	---	---	29.6	34.1	45.9	41.5	40.4
Human immunodeficiency virus (HIV) disease . . . . .	---	---	---	---	1.8	6.5	2.2	2.7
Unintentional injuries . . . . .	---	---	---	99.0	62.6	55.3	51.3	51.3
Motor vehicle-related injuries . . . . .	---	---	---	54.5	32.5	29.1	27.3	25.9
Suicide <sup>7</sup> . . . . .	---	---	---	11.9	11.7	10.6	9.8	10.5
Homicide <sup>7</sup> . . . . .	---	---	---	15.5	10.4	9.9	6.8	6.8

See footnotes at end of table.



**Table 29 (page 3 of 4). Age-adjusted death rates for selected causes of death, according to sex, race, and Hispanic origin: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and cause of death<sup>1</sup></i>	<i>1950<sup>2</sup></i>	<i>1960<sup>2</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>2000<sup>3</sup></i>	<i>2001</i>
Asian or Pacific Islander <sup>8</sup>								
Age-adjusted death rate per 100,000 population								
All causes . . . . .	---	---	---	589.9	582.0	554.8	506.4	492.1
Diseases of heart . . . . .	---	---	---	202.1	181.7	171.3	146.0	137.6
Ischemic heart disease . . . . .	---	---	---	168.2	139.6	128.0	109.6	103.0
Cerebrovascular diseases . . . . .	---	---	---	66.1	56.9	55.2	52.9	51.2
Malignant neoplasms . . . . .	---	---	---	126.1	134.2	131.8	121.9	119.5
Trachea, bronchus, and lung . . . . .	---	---	---	28.4	30.2	29.9	28.1	28.2
Colon, rectum, and anus . . . . .	---	---	---	16.4	14.4	14.0	12.7	13.2
Prostate <sup>5</sup> . . . . .	---	---	---	10.2	16.8	18.0	12.5	11.6
Breast <sup>6</sup> . . . . .	---	---	---	11.9	13.7	13.9	12.3	12.9
Chronic lower respiratory diseases . . . . .	---	---	---	12.9	19.4	19.3	18.6	17.7
Influenza and pneumonia . . . . .	---	---	---	24.0	31.4	29.1	19.7	19.0
Chronic liver disease and cirrhosis . . . . .	---	---	---	6.1	5.2	3.9	3.5	3.5
Diabetes mellitus . . . . .	---	---	---	12.6	14.6	16.8	16.4	16.9
Human immunodeficiency virus (HIV) disease . . . . .	---	---	---	---	2.2	3.2	0.6	0.7
Unintentional injuries . . . . .	---	---	---	27.0	23.9	20.2	17.9	17.4
Motor vehicle-related injuries . . . . .	---	---	---	13.9	14.0	11.4	8.6	8.1
Suicide <sup>7</sup> . . . . .	---	---	---	7.8	6.7	6.7	5.5	5.4
Homicide <sup>7</sup> . . . . .	---	---	---	5.9	5.0	4.7	3.0	4.2
Hispanic or Latino <sup>8,9</sup>								
All causes . . . . .	---	---	---	---	692.0	700.2	665.7	658.7
Diseases of heart . . . . .	---	---	---	---	217.1	211.0	196.0	192.2
Ischemic heart disease . . . . .	---	---	---	---	173.3	166.4	153.2	149.9
Cerebrovascular diseases . . . . .	---	---	---	---	45.2	46.3	46.4	44.9
Malignant neoplasms . . . . .	---	---	---	---	136.8	138.5	134.9	132.3
Trachea, bronchus, and lung . . . . .	---	---	---	---	26.5	25.9	24.8	23.8
Colon, rectum, and anus . . . . .	---	---	---	---	14.7	14.1	14.1	14.1
Prostate <sup>5</sup> . . . . .	---	---	---	---	23.3	27.4	21.6	23.5
Breast <sup>6</sup> . . . . .	---	---	---	---	19.5	18.7	16.9	16.3
Chronic lower respiratory diseases . . . . .	---	---	---	---	19.3	22.6	21.1	20.7
Influenza and pneumonia . . . . .	---	---	---	---	29.7	26.2	20.6	20.5
Chronic liver disease and cirrhosis . . . . .	---	---	---	---	18.3	17.4	16.5	15.8
Diabetes mellitus . . . . .	---	---	---	---	28.2	35.7	36.9	36.7
Human immunodeficiency virus (HIV) disease . . . . .	---	---	---	---	16.3	24.9	6.7	6.2
Unintentional injuries . . . . .	---	---	---	---	34.6	32.2	30.1	30.7
Motor vehicle-related injuries . . . . .	---	---	---	---	19.5	16.4	14.7	15.0
Suicide <sup>7</sup> . . . . .	---	---	---	---	7.8	7.2	5.9	5.7
Homicide <sup>7</sup> . . . . .	---	---	---	---	16.2	12.5	7.5	8.3

See footnotes at end of table.

**Table 29 (page 4 of 4). Age-adjusted death rates for selected causes of death, according to sex, race, and Hispanic origin: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and cause of death<sup>1</sup></i>	<i>1950<sup>2</sup></i>	<i>1960<sup>2</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>2000<sup>3</sup></i>	<i>2001</i>
White, not Hispanic or Latino <sup>9</sup>								
Age-adjusted death rate per 100,000 population								
All causes . . . . .	---	---	---	---	914.5	882.3	855.5	842.9
Diseases of heart . . . . .	---	---	---	---	319.7	289.9	255.5	245.6
Ischemic heart disease . . . . .	---	---	---	---	251.9	219.9	186.6	177.5
Cerebrovascular diseases . . . . .	---	---	---	---	63.5	60.8	59.0	56.0
Malignant neoplasms . . . . .	---	---	---	---	215.4	208.9	200.6	197.4
Trachea, bronchus, and lung . . . . .	---	---	---	---	60.3	59.6	58.2	57.7
Colon, rectum, and anus . . . . .	---	---	---	---	24.6	22.3	20.5	19.9
Prostate <sup>5</sup> . . . . .	---	---	---	---	36.1	34.4	28.0	26.7
Breast <sup>6</sup> . . . . .	---	---	---	---	33.9	30.6	26.8	26.0
Chronic lower respiratory diseases . . . . .	---	---	---	---	39.2	42.1	47.2	47.0
Influenza and pneumonia . . . . .	---	---	---	---	36.5	33.0	23.5	21.7
Chronic liver disease and cirrhosis . . . . .	---	---	---	---	9.9	9.0	9.0	9.0
Diabetes mellitus . . . . .	---	---	---	---	18.3	20.1	21.8	22.1
Human immunodeficiency virus (HIV) disease . . . . .	---	---	---	---	7.4	9.8	2.2	2.1
Unintentional injuries . . . . .	---	---	---	---	35.0	33.4	35.3	36.2
Motor vehicle-related injuries . . . . .	---	---	---	---	18.2	16.1	15.6	15.5
Suicide <sup>7</sup> . . . . .	---	---	---	---	13.8	13.1	12.0	12.5
Homicide <sup>7</sup> . . . . .	---	---	---	---	4.0	3.6	2.8	4.0

--- Data not available.

<sup>1</sup>Underlying cause of death code numbers are based on the applicable revision of the *International Classification of Diseases* (ICD) for data years shown. For the period 1980–98, causes were coded using ICD–9 codes that are most nearly comparable with the 113 cause list for ICD–10. See Appendix II, tables IV and V.

<sup>2</sup>Includes deaths of persons who were not residents of the 50 States and the District of Columbia.

<sup>3</sup>Starting with 1999 data, cause of death is coded according to ICD–10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

<sup>4</sup>Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment.

<sup>5</sup>Rate for male population only.

<sup>6</sup>Rate for female population only.

<sup>7</sup>Figures for 2001 include September 11 related deaths for which death certificates were filed as of October 24, 2002. See updated Appendix II table V for new terrorism-related ICD–10 codes.

<sup>8</sup>The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Persons of Hispanic origin may be of any race. Death rates for the American Indian or Alaska Native and Asian or Pacific Islander populations are known to be underestimated. See Appendix II, Race, for a discussion of sources of bias in death rates by race and Hispanic origin.

<sup>9</sup>Prior to 1997, excludes data from States lacking an Hispanic-origin item on the death certificate. See Appendix II, Hispanic origin.

NOTES: Population estimates used to compute rates for 1991–2000 differ from those used previously. Starting with *Health, United States, 2003*, rates for 1991–99 were revised using intercensal population estimates based on Census 2000. Rates for 2000 were revised based on Census 2000 counts. Rates for 2001 were computed using 2000-based postcensal estimates. See Appendix I, Population Census and Population Estimates. Data for additional years are available. See Appendix III.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System; Grove RD, Hetzel AM. Vital statistics rates in the United States, 1940–1960. Washington: U.S. Government Printing Office. 1968; numerator data from National Vital Statistics System, annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates for 1985–96 prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census; additional mortality tables available at [www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm](http://www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm); Arias E, Anderson RN, Kung HC, Murphy SL, Kochanek KD. Deaths: Final data for 2001. National vital statistics reports. Vol 52 no 3. Hyattsville, Maryland: National Center for Health Statistics. 2003.

**Table 30 (page 1 of 4). Years of potential life lost before age 75 for selected causes of death, according to sex, race, and Hispanic origin: United States, selected years 1980–2001**

[Data are based on death certificates]

Sex, race, Hispanic origin, and cause of death <sup>2</sup>	Crude	Age adjusted <sup>1</sup>				
	2001	1980	1990	1995	2000 <sup>3</sup>	2001
All persons						
Years lost before age 75 per 100,000 population under 75 years of age						
All causes . . . . .	7,564.3	10,448.4	9,085.5	8,626.2	7,578.1	7,531.2
Diseases of heart . . . . .	1,223.9	2,238.7	1,617.7	1,475.4	1,253.0	1,221.1
Ischemic heart disease . . . . .	811.5	1,729.3	1,153.6	1,013.2	841.8	809.7
Cerebrovascular diseases . . . . .	212.0	357.5	259.6	246.5	223.3	211.9
Malignant neoplasms . . . . .	1,656.6	2,108.8	2,003.8	1,841.6	1,674.1	1,651.7
Trachea, bronchus, and lung . . . . .	432.5	548.5	561.4	497.3	443.1	431.2
Colorectal . . . . .	142.9	190.0	164.7	152.0	141.9	142.4
Prostate <sup>4</sup> . . . . .	57.8	84.9	96.8	83.5	63.6	61.8
Breast <sup>5</sup> . . . . .	337.0	463.2	451.6	398.6	332.6	328.1
Chronic lower respiratory diseases . . . . .	185.6	169.1	187.4	190.4	188.1	185.8
Influenza and pneumonia . . . . .	82.5	160.2	141.5	126.9	87.1	82.3
Chronic liver disease and cirrhosis . . . . .	165.1	300.3	196.9	173.7	164.1	164.7
Diabetes mellitus . . . . .	181.0	134.4	155.9	174.7	178.4	180.5
Human immunodeficiency virus (HIV) disease . . . . .	167.3	---	383.8	595.3	174.6	167.8
Unintentional injuries . . . . .	1,040.4	1,543.5	1,162.1	1,057.2	1,026.5	1,036.8
Motor vehicle-related injuries . . . . .	575.4	912.9	716.4	616.3	574.3	572.5
Suicide <sup>6</sup> . . . . .	344.2	392.0	393.1	384.7	334.5	342.6
Homicide <sup>6</sup> . . . . .	313.1	425.5	417.4	378.6	266.5	311.0
Male						
All causes . . . . .	9,423.1	13,777.2	11,973.5	11,289.2	9,572.2	9,507.1
Diseases of heart . . . . .	1,658.9	3,352.1	2,356.0	2,117.4	1,766.0	1,708.3
Ischemic heart disease . . . . .	1,162.4	2,715.1	1,766.3	1,531.5	1,255.4	1,201.8
Cerebrovascular diseases . . . . .	225.9	396.7	286.6	276.9	244.6	233.5
Malignant neoplasms . . . . .	1,727.1	2,360.8	2,214.6	2,008.5	1,810.8	1,782.4
Trachea, bronchus, and lung . . . . .	514.6	821.1	764.8	645.6	554.9	535.9
Colorectal . . . . .	161.1	214.9	194.3	179.4	167.3	166.6
Prostate . . . . .	57.8	84.9	96.8	83.5	63.6	61.8
Chronic lower respiratory diseases . . . . .	191.1	235.1	224.8	213.1	206.0	200.7
Influenza and pneumonia . . . . .	95.1	202.5	180.0	155.7	102.8	96.9
Chronic liver disease and cirrhosis . . . . .	229.7	415.0	283.9	254.8	236.9	233.6
Diabetes mellitus . . . . .	203.7	140.4	170.4	194.6	203.8	209.6
Human immunodeficiency virus (HIV) disease . . . . .	246.0	---	686.2	991.2	258.9	247.7
Unintentional injuries . . . . .	1,509.2	2,342.7	1,715.1	1,531.6	1,475.6	1,490.1
Motor vehicle-related injuries . . . . .	818.1	1,359.7	1,018.4	851.1	796.4	803.5
Suicide <sup>6</sup> . . . . .	557.5	605.6	634.8	628.4	539.1	552.3
Homicide <sup>6</sup> . . . . .	490.9	675.0	658.0	589.6	410.5	480.5
Female						
All causes . . . . .	5,716.0	7,350.3	6,333.1	6,057.5	5,644.6	5,609.2
Diseases of heart . . . . .	791.4	1,246.0	948.5	883.9	774.6	765.4
Ischemic heart disease . . . . .	462.7	852.1	600.3	537.8	457.6	444.3
Cerebrovascular diseases . . . . .	198.1	324.0	235.9	218.7	203.9	192.1
Malignant neoplasms . . . . .	1,586.5	1,896.8	1,826.6	1,698.9	1,555.3	1,538.4
Trachea, bronchus, and lung . . . . .	350.9	310.4	382.2	365.2	342.1	336.6
Colorectal . . . . .	124.7	168.7	138.7	127.5	118.7	120.4
Breast . . . . .	337.0	463.2	451.6	398.6	332.6	328.1
Chronic lower respiratory diseases . . . . .	180.1	114.0	155.9	171.0	172.3	172.8
Influenza and pneumonia . . . . .	69.9	122.0	106.2	100.2	72.3	68.7
Chronic liver disease and cirrhosis . . . . .	100.9	194.5	115.1	96.6	94.5	98.8
Diabetes mellitus . . . . .	158.4	128.5	142.3	155.9	154.4	153.0
Human immunodeficiency virus (HIV) disease . . . . .	89.1	---	87.8	205.7	92.0	89.4
Unintentional injuries . . . . .	574.3	755.3	607.4	580.1	573.2	578.3
Motor vehicle-related injuries . . . . .	334.1	470.4	411.6	378.4	348.5	337.2
Suicide <sup>6</sup> . . . . .	132.1	184.2	153.3	140.8	129.1	131.9
Homicide <sup>6</sup> . . . . .	136.4	181.3	174.3	163.2	118.9	137.4

See footnotes at end of table.

**Table 30 (page 2 of 4). Years of potential life lost before age 75 for selected causes of death, according to sex, race, and Hispanic origin: United States, selected years 1980–2001**

[Data are based on death certificates]

Sex, race, Hispanic origin, and cause of death <sup>2</sup>	Crude	Age adjusted <sup>1</sup>				
	2001	1980	1990	1995	2000 <sup>3</sup>	2001
White <sup>7</sup>						
Years lost before age 75 per 100,000 population under 75 years of age						
All causes . . . . .	7,095.9	9,554.1	8,159.5	7,744.9	6,949.5	6,941.6
Diseases of heart . . . . .	1,161.9	2,100.8	1,490.3	1,353.0	1,149.4	1,115.0
Ischemic heart disease . . . . .	809.3	1,682.7	1,113.4	975.2	805.3	773.0
Cerebrovascular diseases . . . . .	182.3	300.7	213.1	205.2	187.1	175.6
Malignant neoplasms . . . . .	1,677.4	2,035.9	1,929.3	1,780.5	1,627.8	1,610.2
Trachea, bronchus, and lung . . . . .	450.0	529.9	544.2	487.1	436.3	427.5
Colorectal . . . . .	141.1	186.8	157.8	145.0	134.1	135.0
Prostate <sup>4</sup> . . . . .	52.9	74.8	86.6	73.0	54.3	53.1
Breast <sup>5</sup> . . . . .	328.5	460.2	441.7	381.5	315.6	309.6
Chronic lower respiratory diseases . . . . .	194.0	165.4	182.3	185.7	185.3	184.7
Influenza and pneumonia . . . . .	74.5	130.8	116.9	108.3	77.7	72.7
Chronic liver disease and cirrhosis . . . . .	169.7	257.3	175.8	164.6	162.7	164.4
Diabetes mellitus . . . . .	162.8	115.7	133.7	149.4	155.6	156.2
Human immunodeficiency virus (HIV) disease . . . . .	88.7	---	309.0	422.6	94.7	88.4
Unintentional injuries . . . . .	1,043.3	1,520.4	1,139.7	1,040.9	1,031.8	1,049.0
Motor vehicle-related injuries . . . . .	580.7	939.9	726.7	623.6	586.1	585.1
Suicide <sup>6</sup> . . . . .	374.8	414.5	417.7	411.6	362.0	373.5
Homicide <sup>6</sup> . . . . .	202.7	271.7	234.9	220.2	156.6	204.0
Black or African American <sup>7</sup>						
All causes . . . . .	11,707.9	17,873.4	16,593.0	15,809.7	12,897.1	12,579.7
Diseases of heart . . . . .	1,878.4	3,619.9	2,891.8	2,681.8	2,275.2	2,248.9
Ischemic heart disease . . . . .	1,012.5	2,305.1	1,676.1	1,510.2	1,300.1	1,260.6
Cerebrovascular diseases . . . . .	409.1	883.2	656.4	583.6	507.0	491.3
Malignant neoplasms . . . . .	1,836.9	2,946.1	2,894.8	2,597.1	2,294.7	2,228.4
Trachea, bronchus, and lung . . . . .	440.6	776.0	811.3	683.0	593.0	557.5
Colorectal . . . . .	178.0	232.3	241.8	226.9	222.4	219.6
Prostate <sup>4</sup> . . . . .	108.5	200.3	223.5	210.0	171.0	164.1
Breast <sup>5</sup> . . . . .	447.1	524.2	592.9	577.4	500.0	501.7
Chronic lower respiratory diseases . . . . .	188.3	203.7	240.6	244.0	232.7	220.5
Influenza and pneumonia . . . . .	139.6	384.9	330.8	269.8	161.2	152.1
Chronic liver disease and cirrhosis . . . . .	155.9	644.0	371.8	250.3	185.6	181.5
Diabetes mellitus . . . . .	323.4	305.3	361.5	400.8	383.4	392.6
Human immunodeficiency virus (HIV) disease . . . . .	697.1	---	1,014.7	1,945.4	763.3	743.5
Unintentional injuries . . . . .	1,159.2	1,751.5	1,392.7	1,272.1	1,152.8	1,133.4
Motor vehicle-related injuries . . . . .	595.6	750.2	699.5	621.8	580.8	571.7
Suicide <sup>6</sup> . . . . .	205.6	238.0	261.4	254.2	208.7	201.5
Homicide <sup>6</sup> . . . . .	1,024.4	1,580.8	1,612.9	1,352.8	941.6	963.6
American Indian or Alaska Native <sup>7</sup>						
All causes . . . . .	7,395.6	13,390.9	9,506.2	9,332.5	7,758.2	7,991.8
Diseases of heart . . . . .	795.5	1,819.9	1,391.0	1,296.3	1,030.1	1,027.7
Ischemic heart disease . . . . .	512.5	1,208.2	901.8	877.3	709.3	695.2
Cerebrovascular diseases . . . . .	147.2	269.3	223.3	255.3	198.1	193.5
Malignant neoplasms . . . . .	850.2	1,101.3	1,141.1	1,099.5	995.7	1,099.5
Trachea, bronchus, and lung . . . . .	167.1	181.1	268.1	267.7	227.8	238.7
Colorectal . . . . .	63.8	78.8	82.4	103.5	93.8	87.9
Prostate <sup>4</sup> . . . . .	20.8	66.7	42.0	51.1	44.5	35.2
Breast <sup>5</sup> . . . . .	144.0	205.5	213.4	195.9	174.1	175.2
Chronic lower respiratory diseases . . . . .	100.4	89.3	129.0	145.3	151.8	139.3
Influenza and pneumonia . . . . .	137.8	307.9	206.3	199.7	124.0	141.3
Chronic liver disease and cirrhosis . . . . .	431.8	1,190.3	535.1	604.8	519.4	506.0
Diabetes mellitus . . . . .	222.8	305.5	292.3	360.6	305.6	297.3
Human immunodeficiency virus (HIV) disease . . . . .	80.8	---	70.1	246.9	68.4	88.1
Unintentional injuries . . . . .	1,721.5	3,541.0	2,183.9	1,980.9	1,700.1	1,632.0
Motor vehicle-related injuries . . . . .	1,072.6	2,102.4	1,301.5	1,210.3	1,032.2	989.4
Suicide <sup>6</sup> . . . . .	440.9	515.0	495.9	445.2	403.1	420.6
Homicide <sup>6</sup> . . . . .	311.6	628.9	434.2	432.7	278.5	287.0

See footnotes at end of table.

**Table 30 (page 3 of 4). Years of potential life lost before age 75 for selected causes of death, according to sex, race, and Hispanic origin: United States, selected years 1980–2001**

[Data are based on death certificates]

Sex, race, Hispanic origin, and cause of death <sup>2</sup>	Crude	Age adjusted <sup>1</sup>				
	2001	1980	1990	1995	2000 <sup>3</sup>	2001
Asian or Pacific Islander <sup>7</sup>						
Years lost before age 75 per 100,000 population under 75 years of age						
All causes . . . . .	3,616.0	5,378.4	4,705.2	4,333.2	3,811.1	3,798.7
Diseases of heart . . . . .	482.1	952.8	702.2	664.9	567.9	547.1
Ischemic heart disease . . . . .	318.0	697.7	486.6	440.6	381.1	369.4
Cerebrovascular diseases . . . . .	173.9	266.9	233.5	220.0	199.4	198.8
Malignant neoplasms . . . . .	930.6	1,218.6	1,166.4	1,122.1	1,033.8	1,029.6
Trachea, bronchus, and lung . . . . .	154.4	238.2	204.7	197.0	185.8	180.8
Colorectal . . . . .	87.6	115.9	105.1	99.5	91.6	97.2
Prostate <sup>4</sup> . . . . .	9.2	17.0	32.4	25.3	18.8	13.3
Breast <sup>5</sup> . . . . .	197.7	222.2	216.5	237.8	200.8	205.0
Chronic lower respiratory diseases . . . . .	44.0	56.4	72.8	65.8	56.5	52.1
Influenza and pneumonia . . . . .	41.1	79.3	74.0	64.3	48.6	45.4
Chronic liver disease and cirrhosis . . . . .	41.2	85.6	72.4	48.4	44.8	44.5
Diabetes mellitus . . . . .	71.7	83.1	74.0	83.5	77.0	83.8
Human immunodeficiency virus (HIV) disease . . . . .	22.7	---	77.0	110.4	19.9	21.6
Unintentional injuries . . . . .	453.7	742.7	636.6	525.7	425.7	431.4
Motor vehicle-related injuries . . . . .	292.1	472.6	445.5	351.9	263.4	275.9
Suicide <sup>6</sup> . . . . .	179.3	217.1	200.6	211.1	168.6	166.4
Homicide <sup>6</sup> . . . . .	179.7	201.1	205.8	202.3	113.1	165.1
Hispanic or Latino <sup>7,8</sup>						
All causes . . . . .	5,329.0	---	7,963.3	7,426.7	6,037.6	5,982.2
Diseases of heart . . . . .	513.0	---	1,082.0	962.0	821.3	791.6
Ischemic heart disease . . . . .	318.5	---	756.6	665.8	564.6	539.1
Cerebrovascular diseases . . . . .	138.0	---	238.0	232.0	207.8	201.4
Malignant neoplasms . . . . .	755.9	---	1,232.2	1,172.0	1,098.2	1,099.1
Trachea, bronchus, and lung . . . . .	90.7	---	193.7	173.9	152.1	154.9
Colorectal . . . . .	59.8	---	100.2	97.9	101.4	95.8
Prostate <sup>4</sup> . . . . .	22.3	---	47.7	60.8	42.9	49.4
Breast <sup>5</sup> . . . . .	168.1	---	299.3	257.7	230.7	233.6
Chronic lower respiratory diseases . . . . .	43.4	---	78.8	82.1	68.5	67.6
Influenza and pneumonia . . . . .	54.1	---	130.1	108.5	76.0	66.1
Chronic liver disease and cirrhosis . . . . .	169.9	---	329.1	281.4	252.1	247.7
Diabetes mellitus . . . . .	128.1	---	177.8	228.8	215.6	212.1
Human immunodeficiency virus (HIV) disease . . . . .	162.6	---	600.1	865.0	209.4	190.3
Unintentional injuries . . . . .	1,016.2	---	1,190.6	1,017.9	920.1	945.8
Motor vehicle-related injuries . . . . .	617.1	---	740.8	593.0	540.2	554.0
Suicide <sup>6</sup> . . . . .	193.6	---	256.2	245.1	188.5	185.1
Homicide <sup>6</sup> . . . . .	419.2	---	720.8	575.4	335.1	365.2

See footnotes at end of table.

**Table 30 (page 4 of 4). Years of potential life lost before age 75 for selected causes of death, according to sex, race, and Hispanic origin: United States, selected years 1980–2001**

[Data are based on death certificates]

Sex, race, Hispanic origin, and cause of death <sup>2</sup>	Crude	Age adjusted <sup>1</sup>				
	2001	1980	1990	1995	2000 <sup>3</sup>	2001
White, not Hispanic or Latino <sup>8</sup>						
Years lost before age 75 per 100,000 population under 75 years of age						
All causes . . . . .	7,336.2	---	8,022.5	7,607.5	6,960.5	6,970.9
Diseases of heart . . . . .	1,270.7	---	1,504.0	1,368.2	1,175.1	1,144.4
Ischemic heart disease . . . . .	892.7	---	1,127.2	988.7	824.7	794.7
Cerebrovascular diseases . . . . .	188.6	---	210.1	199.6	183.0	170.6
Malignant neoplasms . . . . .	1,834.0	---	1,974.1	1,814.2	1,668.4	1,652.3
Trachea, bronchus, and lung . . . . .	513.8	---	566.8	507.0	460.3	451.9
Colorectal . . . . .	155.1	---	162.1	147.8	136.2	138.5
Prostate <sup>4</sup> . . . . .	58.3	---	89.2	73.6	54.9	53.2
Breast <sup>5</sup> . . . . .	354.6	---	451.5	389.3	322.3	315.9
Chronic lower respiratory diseases . . . . .	220.5	---	188.1	190.6	193.8	194.3
Influenza and pneumonia . . . . .	77.5	---	112.3	105.8	76.4	72.9
Chronic liver disease and cirrhosis . . . . .	167.0	---	162.4	151.4	150.9	153.0
Diabetes mellitus . . . . .	167.4	---	131.2	142.8	150.2	151.0
Human immunodeficiency virus (HIV) disease . . . . .	72.5	---	271.2	362.1	76.0	71.0
Unintentional injuries . . . . .	1,033.5	---	1,114.7	1,026.1	1,041.4	1,057.2
Motor vehicle-related injuries . . . . .	565.7	---	715.7	618.0	588.8	584.1
Suicide <sup>6</sup> . . . . .	405.0	---	433.0	427.7	389.2	405.3
Homicide <sup>6</sup> . . . . .	156.2	---	162.0	148.6	113.2	160.1

--- Data not available.

\* Rate based on fewer than 20 deaths is considered unreliable and is not shown.

<sup>1</sup>Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment.

<sup>2</sup>Underlying cause of death code numbers are based on the applicable revision of the *International Classification of Diseases (ICD)* for data years shown. For the period 1980–98, causes were coded using ICD–9 codes that are most nearly comparable with the 113 cause list for ICD–10. See Appendix II, tables IV and V.

<sup>3</sup>Starting with 1999 data, cause of death is coded according to ICD–10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

<sup>4</sup>Rate for male population only.

<sup>5</sup>Rate for female population only.

<sup>6</sup>Figures for 2001 include September 11 related deaths for which death certificates were filed as of October 24, 2002. See updated Appendix II table V for terrorism-related ICD–10 codes.

<sup>7</sup>The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Persons of Hispanic origin may be of any race. Death rates for the American Indian or Alaska Native and Asian or Pacific Islander populations are known to be underestimated. See Appendix II, Race, for a discussion of sources of bias in death rates by race and Hispanic origin.

<sup>8</sup>Prior to 1997, excludes data from States lacking an Hispanic-origin item on the death certificate. See Appendix II, Hispanic origin.

NOTES: Population estimates used to compute rates for 1991–2000 differ from those used previously. Starting with *Health, United States, 2003*, rates for 1991–99 were revised using intercensal population estimates based on Census 2000. Rates for 2000 were revised based on Census 2000 counts. Rates for 2001 were computed using 2000-based postcensal estimates. See Appendix I, Population Census and Population Estimates. See Appendix II for definition of years of potential life lost (YPLL) and method of calculation. Data for additional years are available. See Appendix III.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National vital statistics system; numerator data from annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates for 1990–96 prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census.



**Table 31 (page 1 of 4). Leading causes of death and numbers of deaths, according to sex, race, and Hispanic origin: United States, 1980 and 2001**

[Data are based on death certificates]

Sex, race, Hispanic origin, and rank order	1980		2001 <sup>1</sup>	
	Cause of death	Deaths	Cause of death	Deaths
<b>All persons</b>				
...	All causes	1,989,841	All causes	2,416,425
1. ....	Diseases of heart	761,085	Diseases of heart	700,142
2. ....	Malignant neoplasms	416,509	Malignant neoplasms	553,768
3. ....	Cerebrovascular diseases	170,225	Cerebrovascular diseases	163,538
4. ....	Unintentional injuries	105,718	Chronic lower respiratory diseases	123,013
5. ....	Chronic obstructive pulmonary diseases	56,050	Unintentional injuries	101,537
6. ....	Pneumonia and influenza	54,619	Diabetes mellitus	71,372
7. ....	Diabetes mellitus	34,851	Influenza and pneumonia	62,034
8. ....	Chronic liver disease and cirrhosis	30,583	Alzheimer's disease	53,852
9. ....	Atherosclerosis	29,449	Nephritis, nephrotic syndrome and nephrosis	39,480
10. ....	Suicide	26,869	Septicemia	32,238
<b>Male</b>				
...	All causes	1,075,078	All causes	1,183,421
1. ....	Diseases of heart	405,661	Diseases of heart	339,095
2. ....	Malignant neoplasms	225,948	Malignant neoplasms	287,075
3. ....	Unintentional injuries	74,180	Unintentional injuries	66,060
4. ....	Cerebrovascular diseases	69,973	Cerebrovascular diseases	63,177
5. ....	Chronic obstructive pulmonary diseases	38,625	Chronic lower respiratory diseases	59,697
6. ....	Pneumonia and influenza	27,574	Diabetes mellitus	32,841
7. ....	Suicide	20,505	Influenza and pneumonia	27,342
8. ....	Chronic liver disease and cirrhosis	19,768	Suicide	24,672
9. ....	Homicide	18,779	Nephritis, nephrotic syndrome and nephrosis	18,852
10. ....	Diabetes mellitus	14,325	Chronic liver disease and cirrhosis	17,393
<b>Female</b>				
...	All causes	914,763	All causes	1,233,004
1. ....	Diseases of heart	355,424	Diseases of heart	361,047
2. ....	Malignant neoplasms	190,561	Malignant neoplasms	266,693
3. ....	Cerebrovascular diseases	100,252	Cerebrovascular diseases	100,361
4. ....	Unintentional injuries	31,538	Chronic lower respiratory diseases	63,316
5. ....	Pneumonia and influenza	27,045	Diabetes mellitus	38,531
6. ....	Diabetes mellitus	20,526	Alzheimer's disease	38,090
7. ....	Atherosclerosis	17,848	Unintentional injuries	35,477
8. ....	Chronic obstructive pulmonary diseases	17,425	Influenza and pneumonia	34,692
9. ....	Chronic liver disease and cirrhosis	10,815	Nephritis, nephrotic syndrome and nephrosis	20,628
10. ....	Certain conditions originating in the perinatal period	9,815	Septicemia	17,931
<b>White</b>				
...	All causes	1,738,607	All causes	2,079,691
1. ....	Diseases of heart	683,347	Diseases of heart	610,638
2. ....	Malignant neoplasms	368,162	Malignant neoplasms	479,651
3. ....	Cerebrovascular diseases	148,734	Cerebrovascular diseases	140,465
4. ....	Unintentional injuries	90,122	Chronic lower respiratory diseases	113,819
5. ....	Chronic obstructive pulmonary diseases	52,375	Unintentional injuries	85,964
6. ....	Pneumonia and influenza	48,369	Diabetes mellitus	57,180
7. ....	Diabetes mellitus	28,868	Influenza and pneumonia	54,774
8. ....	Atherosclerosis	27,069	Alzheimer's disease	50,348
9. ....	Chronic liver disease and cirrhosis	25,240	Nephritis, nephrotic syndrome and nephrosis	31,345
10. ....	Suicide	24,829	Suicide	27,710
<b>Black or African American</b>				
...	All causes	233,135	All causes	287,709
1. ....	Diseases of heart	72,956	Diseases of heart	77,674
2. ....	Malignant neoplasms	45,037	Malignant neoplasms	62,170
3. ....	Cerebrovascular diseases	20,135	Cerebrovascular diseases	19,002
4. ....	Unintentional injuries	13,480	Unintentional injuries	12,462
5. ....	Homicide	10,172	Diabetes mellitus	12,305
6. ....	Certain conditions originating in the perinatal period	6,961	Homicide	8,226
7. ....	Pneumonia and influenza	5,648	Human immunodeficiency virus (HIV) disease	7,844
8. ....	Diabetes mellitus	5,544	Chronic lower respiratory diseases	7,589
9. ....	Chronic liver disease and cirrhosis	4,790	Nephritis, nephrotic syndrome and nephrosis	7,274
10. ....	Nephritis, nephrotic syndrome, and nephrosis	3,416	Septicemia	5,880

See footnotes at end of table.



**Table 31 (page 2 of 4). Leading causes of death and numbers of deaths, according to sex, race, and Hispanic origin: United States, 1980 and 2001**

[Data are based on death certificates]

Sex, race, Hispanic origin, and rank order	1980		2001 <sup>1</sup>	
	Cause of death	Deaths	Cause of death	Deaths
<b>American Indian or Alaska Native</b>				
...	All causes	6,923	All causes	11,977
1. ....	Diseases of heart	1,494	Diseases of heart	2,402
2. ....	Unintentional injuries	1,290	Malignant neoplasms	2,155
3. ....	Malignant neoplasms	770	Unintentional injuries	1,361
4. ....	Chronic liver disease and cirrhosis	410	Diabetes mellitus	644
5. ....	Cerebrovascular diseases	322	Cerebrovascular diseases	574
6. ....	Pneumonia and influenza	257	Chronic liver disease and cirrhosis	533
7. ....	Homicide	217	Chronic lower respiratory diseases	427
8. ....	Diabetes mellitus	210	Suicide	321
9. ....	Certain conditions originating in the perinatal period	199	Influenza and pneumonia	318
10. ....	Suicide	181	Nephritis, nephrotic syndrome and nephrosis	236
<b>Asian or Pacific Islander</b>				
...	All causes	11,071	All causes	37,048
1. ....	Diseases of heart	3,265	Malignant neoplasms	9,792
2. ....	Malignant neoplasms	2,522	Diseases of heart	9,428
3. ....	Cerebrovascular diseases	1,028	Cerebrovascular diseases	3,497
4. ....	Unintentional injuries	810	Unintentional injuries	1,750
5. ....	Pneumonia and influenza	342	Diabetes mellitus	1,243
6. ....	Suicide	249	Chronic lower respiratory diseases	1,178
7. ....	Certain conditions originating in the perinatal period	246	Influenza and pneumonia	1,171
8. ....	Diabetes mellitus	227	Suicide	634
9. ....	Homicide	211	Nephritis, nephrotic syndrome and nephrosis	625
10. ....	Chronic obstructive pulmonary diseases	207	Homicide	543
<b>Hispanic or Latino</b>				
...	---	---	All causes	113,413
1. ....	---	---	Diseases of heart	27,090
2. ....	---	---	Malignant neoplasms	22,371
3. ....	---	---	Unintentional injuries	9,523
4. ....	---	---	Cerebrovascular diseases	6,416
5. ....	---	---	Diabetes mellitus	5,663
6. ....	---	---	Homicide	3,331
7. ....	---	---	Chronic liver disease and cirrhosis	3,301
8. ....	---	---	Chronic lower respiratory diseases	2,832
9. ....	---	---	Influenza and pneumonia	2,722
10. ....	---	---	Certain conditions originating in the perinatal period	2,227
<b>White male</b>				
...	All causes	933,878	All causes	1,011,218
1. ....	Diseases of heart	364,679	Diseases of heart	295,556
2. ....	Malignant neoplasms	198,188	Malignant neoplasms	248,146
3. ....	Unintentional injuries	62,963	Unintentional injuries	55,493
4. ....	Cerebrovascular diseases	60,095	Chronic lower respiratory diseases	54,561
5. ....	Chronic obstructive pulmonary diseases	35,977	Cerebrovascular diseases	53,428
6. ....	Pneumonia and influenza	23,810	Diabetes mellitus	26,917
7. ....	Suicide	18,901	Influenza and pneumonia	23,744
8. ....	Chronic liver disease and cirrhosis	16,407	Suicide	22,328
9. ....	Diabetes mellitus	12,125	Nephritis, nephrotic syndrome and nephrosis	15,241
10. ....	Atherosclerosis	10,543	Chronic liver disease and cirrhosis	15,048
<b>Black or African American male</b>				
...	All causes	130,138	All causes	145,908
1. ....	Diseases of heart	37,877	Diseases of heart	37,016
2. ....	Malignant neoplasms	25,861	Malignant neoplasms	32,679
3. ....	Unintentional injuries	9,701	Unintentional injuries	8,537
4. ....	Cerebrovascular diseases	9,194	Cerebrovascular diseases	7,907
5. ....	Homicide	8,274	Homicide	6,780
6. ....	Certain conditions originating in the perinatal period	3,869	Human immunodeficiency virus (HIV) disease	5,328
7. ....	Pneumonia and influenza	3,386	Diabetes mellitus	5,049
8. ....	Chronic liver disease and cirrhosis	3,020	Chronic lower respiratory diseases	4,187
9. ....	Chronic obstructive pulmonary diseases	2,429	Nephritis, nephrotic syndrome and nephrosis	3,186
10. ....	Diabetes mellitus	2,010	Influenza and pneumonia	2,813

See footnotes at end of table.

**Table 31 (page 3 of 4). Leading causes of death and numbers of deaths, according to sex, race, and Hispanic origin: United States, 1980 and 2001**

[Data are based on death certificates]

Sex, race, Hispanic origin, and rank order	1980		2001 <sup>1</sup>	
	Cause of death	Deaths	Cause of death	Deaths
<b>American Indian or Alaska Native male</b>				
...	All causes	4,193	All causes	6,466
1. ....	Unintentional injuries	946	Diseases of heart	1,358
2. ....	Diseases of heart	917	Malignant neoplasms	1,103
3. ....	Malignant neoplasms	408	Unintentional injuries	908
4. ....	Chronic liver disease and cirrhosis	239	Chronic liver disease and cirrhosis	309
5. ....	Cerebrovascular diseases	163	Diabetes mellitus	276
6. ....	Homicide	162	Suicide	259
7. ....	Pneumonia and influenza	148	Cerebrovascular diseases	217
8. ....	Suicide	147	Chronic lower respiratory diseases	200
9. ....	Certain conditions originating in the perinatal period	107	Influenza and pneumonia	160
10. ....	Diabetes mellitus	86	Homicide	146
<b>Asian or Pacific Islander male</b>				
...	All causes	6,809	All causes	19,829
1. ....	Diseases of heart	2,174	Diseases of heart	5,165
2. ....	Malignant neoplasms	1,485	Malignant neoplasms	5,147
3. ....	Unintentional injuries	556	Cerebrovascular diseases	1,625
4. ....	Cerebrovascular diseases	521	Unintentional injuries	1,122
5. ....	Pneumonia and influenza	227	Chronic lower respiratory diseases	749
6. ....	Suicide	159	Influenza and pneumonia	625
7. ....	Chronic obstructive pulmonary diseases	158	Diabetes mellitus	599
8. ....	Homicide	151	Suicide	458
9. ....	Certain conditions originating in the perinatal period	128	Homicide	375
10. ....	Diabetes mellitus	103	Nephritis, nephrotic syndrome and nephrosis	320
<b>Hispanic or Latino male</b>				
...	---	---	All causes	63,317
1. ....	---	---	Diseases of heart	14,195
2. ....	---	---	Malignant neoplasms	11,825
3. ....	---	---	Unintentional injuries	7,157
4. ....	---	---	Cerebrovascular diseases	2,982
5. ....	---	---	Homicide	2,756
6. ....	---	---	Diabetes mellitus	2,590
7. ....	---	---	Chronic liver disease and cirrhosis	2,410
8. ....	---	---	Suicide	1,576
9. ....	---	---	Chronic lower respiratory diseases	1,482
10. ....	---	---	Human immunodeficiency virus (HIV) disease	1,437
<b>White female</b>				
...	All causes	804,729	All causes	1,068,473
1. ....	Diseases of heart	318,668	Diseases of heart	315,082
2. ....	Malignant neoplasms	169,974	Malignant neoplasms	231,505
3. ....	Cerebrovascular diseases	88,639	Cerebrovascular diseases	87,037
4. ....	Unintentional injuries	27,159	Chronic lower respiratory diseases	59,258
5. ....	Pneumonia and influenza	24,559	Alzheimer's disease	35,634
6. ....	Diabetes mellitus	16,743	Influenza and pneumonia	31,030
7. ....	Atherosclerosis	16,526	Unintentional injuries	30,471
8. ....	Chronic obstructive pulmonary diseases	16,398	Diabetes mellitus	30,263
9. ....	Chronic liver disease and cirrhosis	8,833	Nephritis, nephrotic syndrome and nephrosis	16,104
10. ....	Certain conditions originating in the perinatal period	6,512	Septicemia	14,435
<b>Black or African American female</b>				
...	All causes	102,997	All causes	141,801
1. ....	Diseases of heart	35,079	Diseases of heart	40,658
2. ....	Malignant neoplasms	19,176	Malignant neoplasms	29,491
3. ....	Cerebrovascular diseases	10,941	Cerebrovascular diseases	11,095
4. ....	Unintentional injuries	3,779	Diabetes mellitus	7,256
5. ....	Diabetes mellitus	3,534	Nephritis, nephrotic syndrome and nephrosis	4,088
6. ....	Certain conditions originating in the perinatal period	3,092	Unintentional injuries	3,925
7. ....	Pneumonia and influenza	2,262	Chronic lower respiratory diseases	3,402
8. ....	Homicide	1,898	Septicemia	3,245
9. ....	Chronic liver disease and cirrhosis	1,77	Influenza and pneumonia	2,958
10. ....	Nephritis, nephrotic syndrome, and nephrosis	1,722	Human immunodeficiency virus (HIV) disease	2,516

See footnotes at end of table.

**Table 31 (page 4 of 4). Leading causes of death and numbers of deaths, according to sex, race, and Hispanic origin: United States, 1980 and 2001**

[Data are based on death certificates]

Sex, race, Hispanic origin, and rank order	1980		2001 <sup>1</sup>	
	Cause of death	Deaths	Cause of death	Deaths
American Indian or Alaska Native female				
...	All causes	2,730	All causes	5,511
1. ....	Diseases of heart	577	Malignant neoplasms	1,052
2. ....	Malignant neoplasms	362	Diseases of heart	1,044
3. ....	Unintentional injuries	344	Unintentional injuries	453
4. ....	Chronic liver disease and cirrhosis	171	Diabetes mellitus	368
5. ....	Cerebrovascular diseases	159	Cerebrovascular diseases	357
6. ....	Diabetes mellitus	124	Chronic lower respiratory diseases	227
7. ....	Pneumonia and influenza	109	Chronic liver disease and cirrhosis	224
8. ....	Certain conditions originating in the perinatal period	92	Influenza and pneumonia	158
9. ....	Nephritis, nephrotic syndrome, and nephrosis	56	Nephritis, nephrotic syndrome and nephrosis	131
10. ....	Homicide	55	Septicemia	72
Asian or Pacific Islander female				
...	All causes	4,262	All causes	17,219
1. ....	Diseases of heart	1,091	Malignant neoplasms	4,645
2. ....	Malignant neoplasms	1,037	Diseases of heart	4,263
3. ....	Cerebrovascular diseases	507	Cerebrovascular diseases	1,872
4. ....	Unintentional injuries	254	Diabetes mellitus	644
5. ....	Diabetes mellitus	124	Unintentional injuries	628
6. ....	Certain conditions originating in the perinatal period	118	Influenza and pneumonia	546
7. ....	Pneumonia and influenza	115	Chronic lower respiratory diseases	429
8. ....	Congenital anomalies	104	Nephritis, nephrotic syndrome and nephrosis	305
9. ....	Suicide	90	Essential (primary) hypertension and hypertensive renal disease	234
10. ....	Homicide	60	Alzheimer's disease	188
Hispanic or Latino female				
...	---	---	All causes	50,096
1. ....	---	---	Diseases of heart	12,895
2. ....	---	---	Malignant neoplasms	10,546
3. ....	---	---	Cerebrovascular diseases	3,434
4. ....	---	---	Diabetes mellitus	3,073
5. ....	---	---	Unintentional injuries	2,366
6. ....	---	---	Influenza and pneumonia	1,413
7. ....	---	---	Chronic lower respiratory diseases	1,350
8. ....	---	---	Nephritis, nephrotic syndrome and nephrosis	965
9. ....	---	---	Certain conditions originating in the perinatal period	959
10. ....	---	---	Chronic liver disease and cirrhosis	891

... Category not applicable.

--- Data not available.

<sup>1</sup>Figures for homicide and suicide include September 11, 2001 related deaths for which death certificates were filed as of October 24, 2002. See updated Appendix II table V for terrorism-related ICD-10 codes.

NOTES: For cause of death code numbers based on the *International Classification of Diseases, 9th Revision* (ICD-9) in 1980 and ICD-10 in 2001, see Appendix II, tables IV and V.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System; *Vital statistics of the United States, vol II, mortality, part A*, 1980. Washington: Public Health Service. 1985; Anderson RN, Smith BL. Deaths: Leading causes for 2001. National vital statistics reports. vol 52 no \_\_\_\_\_. Hyattsville, Maryland: National Center for Health Statistics. 2003.

**Table 32 (page 1 of 2). Leading causes of death and numbers of deaths, according to age: United States, 1980 and 2001**

[Data are based on death certificates]

Age and rank order	1980		2001 <sup>1</sup>	
	Cause of death	Deaths	Cause of death	Deaths
<b>Under 1 year</b>				
...	All causes	45,526	All causes	27,568
1. ....	Congenital anomalies	9,220	Congenital malformations, deformations and chromosomal abnormalities	5,513
2. ....	Sudden infant death syndrome	5,510	Disorders related to short gestation and low birth weight, not elsewhere classified	4,410
3. ....	Respiratory distress syndrome	4,989	Sudden infant death syndrome	2,234
4. ....	Disorders relating to short gestation and unspecified low birthweight	3,648	Newborn affected by maternal complications of pregnancy	1,499
5. ....	Newborn affected by maternal complications of pregnancy	1,572	Newborn affected by complications of placenta, cord and membranes	1,018
6. ....	Intrauterine hypoxia and birth asphyxia	1,497	Respiratory distress of newborn	1,011
7. ....	Unintentional injuries	1,166	Unintentional injuries	976
8. ....	Birth trauma	1,058	Bacterial sepsis of newborn	696
9. ....	Pneumonia and influenza	1,012	Diseases of circulatory system	622
10. ....	Newborn affected by complications of placenta, cord, and membranes	985	Intrauterine hypoxia and birth asphyxia	534
<b>1–4 years</b>				
...	All causes	8,187	All causes	5,107
1. ....	Unintentional injuries	3,313	Unintentional injuries	1,714
2. ....	Congenital anomalies	1,026	Congenital malformations, deformations and chromosomal abnormalities	557
3. ....	Malignant neoplasms	573	Malignant neoplasms	420
4. ....	Diseases of heart	338	Homicide	415
5. ....	Homicide	319	Diseases of heart	225
6. ....	Pneumonia and influenza	267	Influenza and pneumonia	112
7. ....	Meningitis	223	Septicemia	108
8. ....	Meningococcal infection	110	Certain conditions originating in the perinatal period	72
9. ....	Certain conditions originating in the perinatal period	84	In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior	58
10. ....	Septicemia	71	Cerebrovascular diseases	54
<b>5–14 years</b>				
...	All causes	10,689	All causes	7,095
1. ....	Unintentional injuries	5,224	Unintentional injuries	2,836
2. ....	Malignant neoplasms	1,497	Malignant neoplasms	1,008
3. ....	Congenital anomalies	561	Congenital malformations, deformations and chromosomal abnormalities	376
4. ....	Homicide	415	Homicide	326
5. ....	Diseases of heart	330	Suicide	279
6. ....	Pneumonia and influenza	194	Diseases of heart	272
7. ....	Suicide	142	In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior	105
8. ....	Benign neoplasms	104	Chronic lower respiratory diseases	104
9. ....	Cerebrovascular diseases	95	Influenza and pneumonia	92
10. ....	Chronic obstructive pulmonary diseases	85	Cerebrovascular diseases	80
<b>15–24 years</b>				
...	All causes	49,027	All causes	32,252
1. ....	Unintentional injuries	26,206	Unintentional injuries	14,411
2. ....	Homicide	6,537	Homicide	5,297
3. ....	Suicide	5,239	Suicide	3,971
4. ....	Malignant neoplasms	2,683	Malignant neoplasms	1,704
5. ....	Diseases of heart	1,223	Diseases of heart	999
6. ....	Congenital anomalies	600	Congenital malformations, deformations and chromosomal abnormalities	505
7. ....	Cerebrovascular diseases	418	Human immunodeficiency virus (HIV) disease	225
8. ....	Pneumonia and influenza	348	Cerebrovascular diseases	196
9. ....	Chronic obstructive pulmonary diseases	141	Influenza and pneumonia	181
10. ....	Anemias	133	Chronic lower respiratory diseases	171

See footnotes at end of table.

**Table 32 (page 2 of 2). Leading causes of death and numbers of deaths, according to age: United States, 1980 and 2001**

[Data are based on death certificates]

Age and rank order	1980		2001 <sup>1</sup>	
	Cause of death	Deaths	Cause of death	Deaths
25–44 years				
...	All causes	108,658	All causes	133,357
1. ....	Unintentional injuries	26,722	Unintentional injuries	27,784
2. ....	Malignant neoplasms	17,551	Malignant neoplasms	20,563
3. ....	Diseases of heart	14,513	Diseases of heart	16,486
4. ....	Homicide	10,983	Suicide	11,705
5. ....	Suicide	9,855	Homicide	9,472
6. ....	Chronic liver disease and cirrhosis	4,782	Human immunodeficiency virus (HIV) disease	7,968
7. ....	Cerebrovascular diseases	3,154	Chronic liver disease and cirrhosis	3,723
8. ....	Diabetes mellitus	1,472	Cerebrovascular diseases	3,092
9. ....	Pneumonia and influenza	1,467	Diabetes mellitus	2,553
10. ....	Congenital anomalies	817	Influenza and pneumonia	1,322
45–64 years				
...	All causes	425,338	All causes	412,204
1. ....	Diseases of heart	148,322	Malignant neoplasms	139,785
2. ....	Malignant neoplasms	135,675	Diseases of heart	98,885
3. ....	Cerebrovascular diseases	19,909	Unintentional injuries	21,002
4. ....	Unintentional injuries	18,140	Cerebrovascular diseases	15,518
5. ....	Chronic liver disease and cirrhosis	16,089	Diabetes mellitus	14,913
6. ....	Chronic obstructive pulmonary diseases	11,514	Chronic lower respiratory diseases	14,490
7. ....	Diabetes mellitus	7,977	Chronic liver disease and cirrhosis	13,009
8. ....	Suicide	7,079	Suicide	9,259
9. ....	Pneumonia and influenza	5,804	Human immunodeficiency virus (HIV) disease	5,437
10. ....	Homicide	4,019	Nephritis, nephrotic syndrome and nephrosis	5,106
65 years and over				
...	All causes	1,341,848	All causes	1,798,420
1. ....	Diseases of heart	595,406	Diseases of heart	582,730
2. ....	Malignant neoplasms	258,389	Malignant neoplasms	390,214
3. ....	Cerebrovascular diseases	146,417	Cerebrovascular diseases	144,486
4. ....	Pneumonia and influenza	45,512	Chronic lower respiratory diseases	106,904
5. ....	Chronic obstructive pulmonary diseases	43,587	Influenza and pneumonia	55,518
6. ....	Atherosclerosis	28,081	Diabetes mellitus	53,707
7. ....	Diabetes mellitus	25,216	Alzheimer's disease	53,245
8. ....	Unintentional injuries	24,844	Nephritis, nephrotic syndrome and nephrosis	33,121
9. ....	Nephritis, nephrotic syndrome, and nephrosis	12,968	Unintentional injuries	32,694
10. ....	Chronic liver disease and cirrhosis	9,519	Septicemia	25,418

... Category not applicable.

<sup>1</sup>Figures for homicide and suicide include September 11, 2001 related deaths for which death certificates were filed as of October 24, 2002. See updated Appendix II table V for new terrorism-related ICD–10 codes.

NOTES: For cause of death code numbers based on the *International Classification of Diseases, 9th Revision* (ICD–9) in 1980 and ICD–10 in 2001, see Appendix II, tables IV and V.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System; *Vital statistics of the United States, vol II, mortality, part A*, 1980. Washington: Public Health Service. 1985; Anderson RN, Smith BL. Deaths: Leading causes for 2001. National vital statistics reports. vol 52 no \_\_\_\_\_. Hyattsville, Maryland: National Center for Health Statistics. 2003.

**Table 33 (page 1 of 3). Age-adjusted death rates, according to race, sex, region, and urbanization level: United States, average annual 1984–86, 1989–91, and 1998–2000**

[Data are based on the National Vital Statistics System]

Sex, region, and urbanization level <sup>1</sup>	All races			White			Black or African American		
	1984–86	1989–91	1998–2000	1984–86	1989–91	1998–2000	1984–86	1989–91	1998–2000
Both sexes	Age-adjusted death rate per 100,000 standard population <sup>2</sup>								
All regions:									
Metropolitan counties:									
Large central. . . . .	1,013.9	977.1	865.2	975.1	929.4	834.2	1,277.5	1,292.7	1,120.1
Large fringe . . . . .	953.9	894.8	827.0	946.1	884.3	820.1	1,170.3	1,144.0	1,038.5
Small . . . . .	970.1	926.2	871.6	948.7	900.8	850.7	1,255.5	1,250.9	1,152.4
Nonmetropolitan counties:									
With a city of 10,000 or more . . . . .	979.5	946.9	905.5	961.5	926.5	885.9	1,262.9	1,262.5	1,200.0
Without a city of 10,000 or more . . . . .	987.5	960.8	919.8	966.7	936.8	897.1	1,232.7	1,249.3	1,175.9
Northeast:									
Metropolitan counties:									
Large central. . . . .	1,056.2	1,020.6	862.9	1,014.1	967.8	840.7	1,256.0	1,260.1	1,001.4
Large fringe . . . . .	967.1	896.9	813.2	961.5	889.7	811.1	1,146.9	1,093.4	968.0
Small . . . . .	973.5	907.7	839.6	965.3	896.9	831.7	1,220.9	1,186.9	1,057.8
Nonmetropolitan counties:									
With a city of 10,000 or more . . . . .	1,003.6	932.3	862.9	1,003.7	932.4	863.3	1,192.9	1,064.3	937.3
Without a city of 10,000 or more . . . . .	996.1	939.7	868.7	995.8	939.3	866.8	1,250.2	1,135.9	1,178.9
Midwest:									
Metropolitan counties:									
Large central. . . . .	1,055.6	1,018.7	943.5	997.6	943.3	874.8	1,296.5	1,311.9	1,202.9
Large fringe . . . . .	970.2	908.4	852.9	961.0	896.6	842.7	1,243.0	1,209.9	1,123.2
Small . . . . .	960.7	912.3	872.7	947.7	895.4	856.5	1,230.9	1,227.7	1,168.3
Nonmetropolitan counties:									
With a city of 10,000 or more . . . . .	935.9	902.7	870.3	932.7	898.3	864.9	1,208.7	1,196.0	1,177.5
Without a city of 10,000 or more . . . . .	922.0	894.1	857.2	917.8	888.0	849.7	1,193.5	1,247.9	1,374.4
South:									
Metropolitan counties:									
Large central. . . . .	1,021.1	999.1	905.1	945.6	908.3	832.3	1,318.4	1,343.8	1,181.6
Large fringe . . . . .	944.0	899.6	849.0	927.6	879.2	834.0	1,163.7	1,154.2	1,054.1
Small . . . . .	986.8	951.7	898.8	945.5	905.3	860.3	1,268.2	1,267.4	1,168.7
Nonmetropolitan counties:									
With a city of 10,000 or more . . . . .	1,028.6	1,009.6	979.6	989.0	966.7	940.0	1,274.7	1,277.3	1,216.0
Without a city of 10,000 or more . . . . .	1,039.8	1,020.8	985.6	1,009.1	984.9	955.8	1,235.1	1,252.4	1,175.8
West:									
Metropolitan counties:									
Large central. . . . .	942.7	904.2	796.7	944.9	905.7	809.0	1,198.3	1,219.4	1,082.2
Large fringe . . . . .	896.7	851.5	767.1	901.1	853.3	773.5	1,130.9	1,144.6	999.0
Small . . . . .	921.6	891.2	826.5	928.2	897.8	837.8	1,180.0	1,169.6	1,037.5
Nonmetropolitan counties:									
With a city of 10,000 or more . . . . .	929.1	899.0	837.9	929.7	897.6	837.4	1,117.8	1,177.7	996.0
Without a city of 10,000 or more . . . . .	936.6	901.0	840.2	927.4	892.8	824.6	933.5	1,078.6	1,350.5

See footnotes at end of table.

**Table 33 (page 2 of 3). Age-adjusted death rates, according to race, sex, region, and urbanization level: United States, average annual 1984–86, 1989–91, and 1998–2000**

[Data are based on the National Vital Statistics System]

Sex, region, and urbanization level <sup>1</sup>	All races			White			Black or African American		
	1984–86	1989–91	1998–2000	1984–86	1989–91	1998–2000	1984–86	1989–91	1998–2000
Male	Age-adjusted death rate per 100,000 standard population <sup>2</sup>								
All regions:									
Metropolitan counties:									
Large central. . . . .	1,309.4	1,255.2	1,055.9	1,261.1	1,192.6	1,014.9	1,675.8	1,714.5	1,421.7
Large fringe . . . . .	1,218.9	1,129.0	995.1	1,210.7	1,116.3	986.5	1,490.6	1,458.2	1,281.7
Small . . . . .	1,258.4	1,184.6	1,061.9	1,235.0	1,152.6	1,035.9	1,615.7	1,634.9	1,442.4
Nonmetropolitan counties:									
With a city of 10,000 or more . . . . .	1,274.4	1,219.7	1,112.3	1,255.7	1,195.6	1,087.6	1,624.1	1,644.9	1,514.3
Without a city of 10,000 or more . . . . .	1,285.1	1,241.7	1,132.8	1,261.6	1,211.9	1,104.1	1,598.2	1,640.8	1,492.8
Northeast:									
Metropolitan counties:									
Large central. . . . .	1,375.0	1,326.8	1,065.7	1,319.6	1,255.1	1,036.0	1,668.8	1,698.6	1,283.2
Large fringe . . . . .	1,237.1	1,134.2	986.8	1,230.6	1,125.5	984.7	1,479.2	1,405.1	1,198.4
Small . . . . .	1,269.7	1,169.2	1,032.3	1,259.8	1,154.8	1,023.0	1,584.1	1,575.1	1,310.4
Nonmetropolitan counties:									
With a city of 10,000 or more . . . . .	1,297.3	1,202.5	1,060.7	1,299.0	1,203.3	1,063.1	1,409.3	1,331.9	1,024.5
Without a city of 10,000 or more . . . . .	1,284.0	1,200.6	1,054.0	1,284.6	1,201.0	1,052.2	1,516.9	1,392.4	1,471.9
Midwest:									
Metropolitan counties:									
Large central. . . . .	1,379.4	1,322.4	1,164.8	1,309.7	1,225.0	1,076.1	1,690.4	1,730.8	1,527.6
Large fringe . . . . .	1,250.3	1,151.3	1,030.7	1,241.0	1,137.8	1,018.8	1,560.7	1,523.6	1,372.1
Small . . . . .	1,257.1	1,173.7	1,072.7	1,242.6	1,152.8	1,053.5	1,574.6	1,583.3	1,437.1
Nonmetropolitan counties:									
With a city of 10,000 or more . . . . .	1,224.9	1,171.0	1,071.5	1,222.0	1,166.6	1,065.6	1,508.6	1,485.7	1,417.1
Without a city of 10,000 or more . . . . .	1,201.6	1,156.2	1,060.3	1,197.2	1,149.5	1,051.5	1,381.0	1,444.1	1,694.9
South:									
Metropolitan counties:									
Large central. . . . .	1,322.2	1,300.0	1,110.3	1,223.7	1,179.1	1,015.9	1,734.3	1,796.7	1,506.3
Large fringe . . . . .	1,209.2	1,140.4	1,018.7	1,190.3	1,114.4	998.7	1,488.7	1,485.8	1,309.1
Small . . . . .	1,280.9	1,222.1	1,094.4	1,232.3	1,160.9	1,044.3	1,640.0	1,668.5	1,477.9
Nonmetropolitan counties:									
With a city of 10,000 or more . . . . .	1,353.0	1,318.6	1,219.9	1,311.2	1,265.8	1,168.4	1,653.8	1,684.2	1,558.3
Without a city of 10,000 or more . . . . .	1,364.1	1,332.3	1,224.4	1,330.6	1,286.9	1,185.5	1,610.2	1,656.6	1,500.3
West:									
Metropolitan counties:									
Large central. . . . .	1,199.8	1,134.8	956.6	1,205.6	1,138.3	969.7	1,544.1	1,554.7	1,326.8
Large fringe . . . . .	1,123.6	1,050.9	904.1	1,132.1	1,055.9	910.3	1,364.3	1,330.9	1,187.6
Small . . . . .	1,173.2	1,111.1	991.6	1,187.4	1,123.2	1,004.7	1,431.7	1,422.7	1,214.5
Nonmetropolitan counties:									
With a city of 10,000 or more . . . . .	1,172.6	1,109.7	1,002.8	1,176.1	1,110.6	999.6	1,361.7	1,387.8	1,110.5
Without a city of 10,000 or more . . . . .	1,172.4	1,118.1	997.5	1,162.0	1,108.5	977.5	1,087.2	1,199.9	2,077.1

See footnotes at end of table.



**Table 33 (page 3 of 3). Age-adjusted death rates, according to race, sex, region, and urbanization level: United States, average annual 1984–86, 1989–91, and 1998–2000**

[Data are based on the National Vital Statistics System]

Sex, region, and urbanization level <sup>1</sup>	All races			White			Black or African American		
	1984–86	1989–91	1998–2000	1984–86	1989–91	1998–2000	1984–86	1989–91	1998–2000
Female	Age-adjusted death rate per 100,000 standard population <sup>2</sup>								
All regions:									
Metropolitan counties:									
Large central. . . . .	810.1	779.4	725.2	780.5	743.6	700.3	999.8	1,000.9	916.0
Large fringe . . . . .	772.4	733.4	705.3	766.0	725.3	699.3	936.5	918.5	872.8
Small . . . . .	769.7	744.4	730.5	751.2	724.7	712.9	999.0	983.2	952.8
Nonmetropolitan counties:									
With a city of 10,000 or more . . . . .	769.0	752.9	751.8	752.9	736.0	735.4	1,003.2	996.6	987.3
Without a city of 10,000 or more . . . . .	762.0	749.8	754.8	743.9	730.3	736.1	960.1	967.1	953.2
Northeast:									
Metropolitan counties:									
Large central. . . . .	842.2	808.5	721.3	810.5	769.4	702.2	983.7	972.0	822.0
Large fringe . . . . .	788.0	737.6	690.9	783.7	732.2	688.5	915.7	876.3	813.8
Small . . . . .	778.6	734.7	704.4	772.3	726.9	697.6	961.5	917.8	881.9
Nonmetropolitan counties:									
With a city of 10,000 or more . . . . .	802.8	748.3	719.1	802.1	748.2	718.3	1,016.6	856.5	857.3
Without a city of 10,000 or more . . . . .	787.3	751.7	729.2	786.9	751.2	727.7	1,044.1	917.1	1,000.4
Midwest:									
Metropolitan counties:									
Large central. . . . .	840.8	814.9	787.5	797.4	760.6	734.4	1,015.2	1,018.8	978.1
Large fringe . . . . .	783.8	747.7	729.0	775.8	738.1	720.3	1,008.7	982.6	948.4
Small . . . . .	764.6	737.8	732.7	753.6	724.5	718.8	982.4	976.9	972.3
Nonmetropolitan counties:									
With a city of 10,000 or more . . . . .	737.1	718.3	725.3	734.1	714.4	720.2	973.9	975.1	1,014.5
Without a city of 10,000 or more . . . . .	712.0	699.0	702.1	708.4	693.7	695.9	1,030.4	1,097.8	1,171.6
South:									
Metropolitan counties:									
Large central. . . . .	808.3	782.4	752.8	750.1	713.2	693.7	1,028.4	1,031.9	961.3
Large fringe . . . . .	753.5	726.6	721.7	739.7	710.7	709.0	923.3	917.6	883.0
Small . . . . .	778.3	758.7	751.4	742.5	722.5	719.3	1,007.8	992.6	961.7
Nonmetropolitan counties:									
With a city of 10,000 or more . . . . .	798.2	793.4	805.1	761.4	757.5	771.4	1,007.8	1,001.0	989.7
Without a city of 10,000 or more . . . . .	796.1	789.5	803.5	768.0	759.9	778.5	958.1	964.6	949.3
West:									
Metropolitan counties:									
Large central. . . . .	759.1	731.4	673.2	760.9	732.2	683.9	942.5	964.5	904.3
Large fringe . . . . .	733.9	706.1	663.0	736.9	707.2	669.1	935.6	973.0	856.9
Small . . . . .	730.6	720.7	694.6	735.2	725.7	704.8	953.8	946.5	882.3
Nonmetropolitan counties:									
With a city of 10,000 or more . . . . .	734.7	728.7	702.6	735.8	727.9	704.7	889.6	995.7	888.3
Without a city of 10,000 or more . . . . .	738.1	719.0	702.0	731.6	713.6	690.9	*	*	1,182.6

\* Data for groups with population under 5,000 in the middle year of a 3-year period are considered unreliable and are not shown.

<sup>1</sup>Urbanization levels are for county of residence of decedent. See Appendix II, Urbanization for definition of urbanization levels.

<sup>2</sup>Average annual death rates, age-adjusted using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment. Denominators for rates are population estimates for the middle year of each 3-year period multiplied by 3. The 1999 population estimates used to compute rates for 1998–2000 are intercensal population estimates based on Census 2000. See Appendix I, Population Census and Population Estimates.

NOTE: The race groups, white and black, include persons of Hispanic and non-Hispanic origin.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System, Compressed Mortality File.

**Table 34 (page 1 of 2). Age-adjusted death rates for persons 25–64 years of age for selected causes of death, according to sex and educational attainment: Selected States, 1994–2001**

[Data are based on death certificates]

Cause of death <sup>2</sup> and year	Both sexes			Male			Female		
	Years of educational attainment <sup>1</sup>			Years of educational attainment <sup>1</sup>			Years of educational attainment <sup>1</sup>		
	Less than 12	12	13 or more	Less than 12	12	13 or more	Less than 12	12	13 or more
All causes	Age-adjusted death rate per 100,000 population <sup>3</sup>								
1994 . . . . .	594.6	506.4	254.8	793.6	707.1	323.5	397.3	342.9	182.1
1995 . . . . .	604.7	512.5	251.9	801.1	713.2	316.8	408.6	348.1	183.5
1996 . . . . .	579.6	492.5	241.8	763.9	669.6	300.7	396.6	344.2	180.3
1997 . . . . .	554.1	473.4	232.7	719.7	634.4	283.4	387.2	337.5	180.2
1998 . . . . .	561.6	465.8	223.9	727.6	627.1	271.9	395.6	330.9	174.3
1999 . . . . .	585.3	474.5	219.1	763.7	636.7	264.2	409.9	337.3	172.6
2000 . . . . .	591.0	484.5	216.7	780.2	641.8	260.8	409.0	347.7	171.9
2001 . . . . .	576.6	480.9	214.6	745.8	631.2	257.3	407.1	348.6	171.5
Chronic and noncommunicable diseases									
1994 . . . . .	440.5	380.7	193.7	561.9	504.4	228.4	325.0	286.8	155.5
1995 . . . . .	445.1	384.0	192.1	563.4	507.3	224.4	332.1	290.0	156.3
1996 . . . . .	432.7	375.3	189.0	550.6	486.9	222.1	321.2	287.7	153.4
1997 . . . . .	419.0	368.8	187.4	527.0	474.1	219.0	316.0	284.6	153.8
1998 . . . . .	425.2	362.9	180.9	534.4	470.2	211.3	321.3	277.9	148.6
1998 comparability-modified <sup>4</sup> . . . . .	429.5	366.5	182.7	539.7	474.9	213.4	324.5	280.7	150.1
1999 <sup>5</sup> . . . . .	447.0	369.8	177.2	563.0	477.6	205.5	337.2	283.6	147.4
2000 . . . . .	446.2	377.6	175.7	567.2	481.5	202.9	334.3	292.3	147.2
2001 . . . . .	436.5	370.7	171.1	545.1	468.2	195.7	331.7	290.3	145.5
Injuries									
1994 . . . . .	95.8	73.4	31.9	149.4	119.2	45.7	38.9	31.7	17.9
1995 . . . . .	96.6	74.3	31.6	149.4	120.3	45.3	40.0	32.1	17.8
1996 . . . . .	92.3	73.0	32.0	139.8	116.2	45.7	40.6	32.7	18.4
1997 . . . . .	92.7	73.5	31.9	138.8	116.4	45.5	41.1	33.4	18.4
1998 . . . . .	93.9	73.8	31.2	139.4	116.6	44.4	43.8	33.7	18.3
1998 comparability-modified <sup>4</sup> . . . . .	95.0	74.7	31.6	141.0	118.0	44.9	44.3	34.1	18.5
1999 <sup>5</sup> . . . . .	94.8	75.2	30.6	143.7	118.3	43.2	42.6	34.4	18.1
2000 . . . . .	99.8	76.4	30.3	153.9	118.6	43.1	43.7	35.2	17.9
2001 <sup>6</sup> . . . . .	97.4	80.4	33.1	146.0	122.2	47.4	44.8	38.6	19.3
Communicable diseases									
1994 . . . . .	57.5	51.6	28.9	81.5	82.8	49.1	32.5	23.7	8.4
1995 . . . . .	62.1	53.4	27.9	87.3	84.7	46.7	35.8	25.2	8.9
1996 . . . . .	53.7	43.3	20.2	72.5	65.6	32.6	33.8	23.0	8.0
1997 . . . . .	41.6	30.1	12.9	53.1	42.9	18.4	29.3	18.7	7.6
1998 . . . . .	41.5	28.2	11.4	52.8	39.4	15.7	29.6	18.4	7.0
1998 comparability-modified <sup>4</sup> . . . . .	35.4	24.1	9.7	45.1	33.6	13.4	25.3	15.7	6.0
1999 <sup>5</sup> . . . . .	42.1	28.5	10.8	54.8	39.5	15.1	29.4	18.8	6.6
2000 . . . . .	43.5	29.4	10.3	56.9	40.4	14.3	30.3	19.5	6.4
2001 . . . . .	41.4	28.7	9.9	52.9	39.4	13.6	29.7	19.0	6.3
HIV disease:									
1994 . . . . .	36.2	36.5	21.4	54.7	63.0	39.7	16.8	12.3	2.9
1995 . . . . .	39.7	38.0	20.6	59.0	64.4	37.8	19.0	13.7	3.5
1996 . . . . .	31.9	27.7	13.1	45.4	45.4	23.8	17.2	11.2	2.4
1997 . . . . .	19.4	14.3	5.8	26.3	23.0	10.1	11.8	6.2	1.6
1998 . . . . .	17.3	11.7	4.3	23.4	18.3	7.5	10.6	5.6	1.1
1998 comparability-modified <sup>4</sup> . . . . .	19.8	13.4	4.9	26.8	20.9	8.6	12.1	6.4	1.3
1999 <sup>5</sup> . . . . .	19.0	13.1	4.6	26.1	20.1	7.9	11.7	6.6	1.4
2000 . . . . .	19.8	13.2	4.1	26.9	19.8	7.1	12.6	7.1	1.2
2001 . . . . .	18.4	12.5	3.8	25.0	18.6	6.4	11.6	6.8	1.2

See footnotes at end of table.

**Table 34 (page 2 of 2). Age-adjusted death rates for persons 25–64 years of age for selected causes of death, according to sex and educational attainment: Selected States, 1994–2001**

[Data are based on death certificates]

Cause of death <sup>2</sup> and year	Both sexes			Male			Female		
	Years of educational attainment <sup>1</sup>			Years of educational attainment <sup>1</sup>			Years of educational attainment <sup>1</sup>		
	Less than 12	12	13 or more	Less than 12	12	13 or more	Less than 12	12	13 or more
Other communicable diseases:	Age-adjusted death rate per 100,000 population <sup>3</sup>								
1994 . . . . .	21.2	15.1	7.5	26.8	19.7	9.4	15.7	11.4	5.5
1995 . . . . .	22.4	15.5	7.2	28.2	20.3	8.8	16.8	11.5	5.5
1996 . . . . .	21.8	15.7	7.2	27.2	20.2	8.8	16.7	11.9	5.6
1997 . . . . .	22.2	15.9	7.1	26.8	19.9	8.2	17.6	12.5	6.0
1998 . . . . .	24.2	16.5	7.1	29.4	21.1	8.2	19.0	12.8	5.9
1998 comparability-modified <sup>4</sup> . . . . .	19.4	13.2	5.7	23.6	16.9	6.6	15.2	10.3	4.7
1999 <sup>5</sup> . . . . .	23.1	15.4	6.2	28.8	19.4	7.2	17.6	12.2	5.3
2000 . . . . .	23.7	16.2	6.2	30.0	20.6	7.2	17.7	12.4	5.1
2001 . . . . .	22.9	16.2	6.1	27.9	20.8	7.1	18.1	12.2	5.1

<sup>1</sup>Educational attainment for the numerator is based on the death certificate item "highest grade completed." Educational attainment for the denominator is based on answers to the Current Population Survey question "What is the highest level of school completed or highest degree received?" (Kominski R, Adams A. Educational Attainment in the United States: March 1993 and 1992, U.S. Bureau of the Census, Current Population Reports, P20-476, Washington, DC. 1994.)

<sup>2</sup>Underlying cause of death code numbers are based on the applicable revision of the *International Classification of Diseases* (ICD) for data years shown. See Appendix II, tables IV and V.

<sup>3</sup>Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment. Death records that are missing information about decedent's education are not included. Percent with not stated education averages 3–9 percent of the deaths comprising the age-adjusted death rates for causes of death in this table. Age-adjusted death rates for 1994–2000 were calculated using 1990-based postcensal population estimates in the denominator. Rates for 2001 were computed using 2000-based postcensal estimates. See Appendix I, Population Census and Population Estimates.

<sup>4</sup>Calculated by multiplying the 1998 rate by its comparability ratio to adjust for differences between ICD-9 and ICD-10. See Appendix II, Comparability ratio and table VI.

<sup>5</sup>Starting with 1999 data, cause of death is coded according to ICD-10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

<sup>6</sup>Figures include September 11, 2001 related deaths for which death certificates were filed as of October 24, 2002. See updated Appendix II table V for terrorism-related ICD-10 codes.

NOTES: Based on data from 45–47 States and the District of Columbia. Death rates for age groups 65 years and over are not shown because reporting quality of educational attainment on the death certificate is poorer at older than younger ages. See Appendix II, Education, for information about reporting states and sources of bias in death rates by educational attainment.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System; numerator data from annual mortality files; denominator data from unpublished population estimates prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census.

**Table 35 (page 1 of 4). Death rates for all causes, according to sex, race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1950<sup>1</sup></i>	<i>1960<sup>1</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>1998</i>	<i>1999</i>	<i>2000</i>	<i>2001</i>
Deaths per 100,000 resident population										
<b>All persons</b>										
All ages, age adjusted <sup>2</sup> . . . . .	1,446.0	1,339.2	1,222.6	1,039.1	938.7	909.8	870.6	875.6	869.0	854.5
All ages, crude . . . . .	963.8	954.7	945.3	878.3	863.8	868.3	847.3	857.0	854.0	848.5
Under 1 year . . . . .	3,299.2	2,696.4	2,142.4	1,288.3	971.9	780.3	754.0	736.0	736.7	683.4
1–4 years . . . . .	139.4	109.1	84.5	63.9	46.8	40.4	34.1	34.2	32.4	33.3
5–14 years . . . . .	60.1	46.6	41.3	30.6	24.0	22.2	19.3	18.6	18.0	17.3
15–24 years . . . . .	128.1	106.3	127.7	115.4	99.2	93.4	80.6	79.3	79.9	80.7
25–34 years . . . . .	178.7	146.4	157.4	135.5	139.2	137.3	104.3	102.2	101.4	105.2
35–44 years . . . . .	358.7	299.4	314.5	227.9	223.2	239.4	198.6	198.0	198.9	203.6
45–54 years . . . . .	853.9	756.0	730.0	584.0	473.4	454.3	415.8	418.2	425.6	428.9
55–64 years . . . . .	1,901.0	1,735.1	1,658.8	1,346.3	1,196.9	1,104.7	1,015.7	1,005.0	992.2	964.6
65–74 years . . . . .	4,104.3	3,822.1	3,582.7	2,994.9	2,648.6	2,549.0	2,471.6	2,457.3	2,399.1	2,353.3
75–84 years . . . . .	9,331.1	8,745.2	8,004.4	6,692.6	6,007.2	5,811.3	5,672.8	5,714.5	5,666.5	5,582.4
85 years and over . . . . .	20,196.9	19,857.5	16,344.9	15,980.3	15,327.4	15,248.6	15,190.8	15,554.6	15,524.4	15,112.8
<b>Male</b>										
All ages, age adjusted <sup>2</sup> . . . . .	1,674.2	1,609.0	1,542.1	1,348.1	1,202.8	1,143.9	1,069.4	1,067.0	1,053.8	1,029.1
All ages, crude . . . . .	1,106.1	1,104.5	1,090.3	976.9	918.4	900.8	856.4	859.2	853.0	846.4
Under 1 year . . . . .	3,728.0	3,059.3	2,410.0	1,428.5	1,082.8	856.3	818.6	805.0	806.5	749.8
1–4 years . . . . .	151.7	119.5	93.2	72.6	52.4	44.5	37.1	37.9	35.9	37.0
5–14 years . . . . .	70.9	55.7	50.5	36.7	28.5	26.4	22.7	21.5	20.9	19.8
15–24 years . . . . .	167.9	152.1	188.5	172.3	147.4	137.4	116.7	113.1	114.9	117.0
25–34 years . . . . .	216.5	187.9	215.3	196.1	204.3	198.0	142.6	139.7	138.6	143.7
35–44 years . . . . .	428.8	372.8	402.6	299.2	310.4	331.0	257.0	254.9	255.2	259.6
45–54 years . . . . .	1,067.1	992.2	958.5	767.3	610.3	589.9	531.0	533.1	542.8	545.1
55–64 years . . . . .	2,395.3	2,309.5	2,282.7	1,815.1	1,553.4	1,400.7	1,271.5	1,252.0	1,230.7	1,192.7
65–74 years . . . . .	4,931.4	4,914.4	4,873.8	4,105.2	3,491.5	3,263.8	3,112.1	3,073.7	2,979.6	2,911.5
75–84 years . . . . .	10,426.0	10,178.4	10,010.2	8,816.7	7,888.6	7,399.6	7,095.5	7,083.3	6,972.6	6,833.0
85 years and over . . . . .	21,636.0	21,186.3	17,821.5	18,801.1	18,056.6	17,861.0	17,357.2	17,597.2	17,501.4	16,744.8
<b>Female</b>										
All ages, age adjusted <sup>2</sup> . . . . .	1,236.0	1,105.3	971.4	817.9	750.9	739.4	724.7	734.0	731.4	721.8
All ages, crude . . . . .	823.5	809.2	807.8	785.3	812.0	837.2	838.5	854.9	855.0	850.4
Under 1 year . . . . .	2,854.6	2,321.3	1,863.7	1,141.7	855.7	700.5	686.0	663.6	663.4	613.9
1–4 years . . . . .	126.7	98.4	75.4	54.7	41.0	36.0	31.0	30.3	28.7	29.5
5–14 years . . . . .	48.9	37.3	31.8	24.2	19.3	17.9	15.8	15.6	15.0	14.6
15–24 years . . . . .	89.1	61.3	68.1	57.5	49.0	47.3	42.7	43.7	43.1	42.6
25–34 years . . . . .	142.7	106.6	101.6	75.9	74.2	76.1	65.6	64.1	63.5	66.0
35–44 years . . . . .	290.3	229.4	231.1	159.3	137.9	149.3	140.9	141.8	143.2	148.2
45–54 years . . . . .	641.5	526.7	517.2	412.9	342.7	324.1	304.9	307.6	312.5	316.8
55–64 years . . . . .	1,404.8	1,196.4	1,098.9	934.3	878.8	835.2	780.6	777.6	772.2	754.0
65–74 years . . . . .	3,333.2	2,871.8	2,579.7	2,144.7	1,991.2	1,975.8	1,950.2	1,952.3	1,921.2	1,890.8
75–84 years . . . . .	8,399.6	7,633.1	6,677.6	5,440.1	4,883.1	4,818.6	4,755.6	4,825.4	4,814.7	4,760.5
85 years and over . . . . .	19,194.7	19,008.4	15,518.0	14,746.9	14,274.3	14,242.3	14,329.9	14,731.3	14,719.2	14,429.9
<b>White male<sup>3</sup></b>										
All ages, age adjusted <sup>2</sup> . . . . .	1,642.5	1,586.0	1,513.7	1,317.6	1,165.9	1,107.5	1,042.0	1,040.0	1,029.4	1,006.1
All ages, crude . . . . .	1,089.5	1,098.5	1,086.7	983.3	930.9	921.0	887.3	892.1	887.8	881.9
Under 1 year . . . . .	3,400.5	2,694.1	2,113.2	1,230.3	896.1	720.7	678.3	667.0	667.6	627.6
1–4 years . . . . .	135.5	104.9	83.6	66.1	45.9	39.0	32.6	33.9	32.6	34.2
5–14 years . . . . .	67.2	52.7	48.0	35.0	26.4	24.3	20.7	19.7	19.8	18.4
15–24 years . . . . .	152.4	143.7	170.8	167.0	131.3	120.1	105.7	102.8	105.8	108.0
25–34 years . . . . .	185.3	163.2	176.6	171.3	176.1	171.9	125.8	125.4	124.1	130.3
35–44 years . . . . .	380.9	332.6	343.5	257.4	268.2	286.8	232.1	230.8	233.6	239.7
45–54 years . . . . .	984.5	932.2	882.9	698.9	548.7	528.3	481.3	484.6	496.9	501.3
55–64 years . . . . .	2,304.4	2,225.2	2,202.6	1,728.5	1,467.2	1,319.3	1,196.5	1,179.7	1,163.3	1,127.5
65–74 years . . . . .	4,864.9	4,848.4	4,810.1	4,035.7	3,397.7	3,173.3	3,041.8	2,998.7	2,905.7	2,842.3
75–84 years . . . . .	10,526.3	10,299.6	10,098.8	8,829.8	7,844.9	7,347.3	7,053.4	7,040.1	6,933.1	6,799.7
85 years and over . . . . .	22,116.3	21,750.0	18,551.7	19,097.3	18,268.3	18,050.7	17,534.2	17,752.9	17,716.4	16,935.4

See footnotes at end of table.

**Table 35 (page 2 of 4). Death rates for all causes, according to sex, race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1950<sup>1</sup></i>	<i>1960<sup>1</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>1998</i>	<i>1999</i>	<i>2000</i>	<i>2001</i>
Deaths per 100,000 resident population										
<b>Black or African American male<sup>3</sup></b>										
All ages, age adjusted <sup>2</sup> . . . . .	1,909.1	1,811.1	1,873.9	1,697.8	1,644.5	1,585.7	1,430.5	1,432.6	1,403.5	1,375.0
All ages, crude . . . . .	1,257.7	1,181.7	1,186.6	1,034.1	1,008.0	960.2	848.2	847.4	834.1	823.9
Under 1 year . . . . .	---	5,306.8	4,298.9	2,586.7	2,112.4	1,664.7	1,629.3	1,592.8	1,567.6	1,426.4
1–4 years <sup>4</sup> . . . . .	1,412.6	208.5	150.5	110.5	85.8	73.1	62.6	59.0	54.5	53.2
5–14 years . . . . .	95.1	75.1	67.1	47.4	41.2	38.5	33.2	32.0	28.2	27.7
15–24 years . . . . .	289.7	212.0	320.6	209.1	252.2	246.6	193.5	184.6	181.4	180.7
25–34 years . . . . .	503.5	402.5	559.5	407.3	430.8	407.4	272.5	258.6	261.0	259.2
35–44 years . . . . .	878.1	762.0	956.6	689.8	699.6	716.8	478.9	469.2	453.0	445.0
45–54 years . . . . .	1,905.0	1,624.8	1,777.5	1,479.9	1,261.0	1,238.9	1,037.7	1,030.7	1,017.7	996.1
55–64 years . . . . .	3,773.2	3,316.4	3,256.9	2,873.0	2,618.4	2,382.0	2,182.0	2,145.6	2,080.1	2,025.3
65–74 years . . . . .	5,310.3	5,798.7	5,803.2	5,131.1	4,946.1	4,707.8	4,337.6	4,352.3	4,253.5	4,166.6
75–84 years <sup>5</sup> . . . . .	10,101.9	8,605.1	9,454.9	9,231.6	9,129.5	8,862.0	8,526.7	8,559.1	8,486.0	8,355.9
85 years and over . . . . .	---	14,844.8	12,222.3	16,098.8	16,954.9	17,016.0	16,700.2	17,304.5	16,791.0	16,439.9
<b>American Indian or Alaska Native male<sup>3</sup></b>										
All ages, age adjusted <sup>2</sup> . . . . .	---	---	---	1,111.5	916.2	932.0	943.9	925.9	841.5	798.9
All ages, crude . . . . .	---	---	---	597.1	476.4	459.4	441.9	431.8	415.6	424.2
Under 1 year . . . . .	---	---	---	1,598.1	1,056.6	696.0	883.9	721.8	700.2	720.2
1–4 years . . . . .	---	---	---	82.7	77.4	73.3	52.5	46.6	44.9	47.6
5–14 years . . . . .	---	---	---	43.7	33.4	27.0	24.5	18.8	20.2	25.2
15–24 years . . . . .	---	---	---	311.1	219.8	182.1	143.0	154.2	136.2	142.9
25–34 years . . . . .	---	---	---	360.6	256.1	263.6	208.5	189.6	179.1	180.0
35–44 years . . . . .	---	---	---	556.8	365.4	377.4	314.2	296.5	295.2	311.4
45–54 years . . . . .	---	---	---	871.3	619.9	601.0	555.1	554.8	520.0	536.9
55–64 years . . . . .	---	---	---	1,547.5	1,211.3	1,276.0	1,200.0	1,122.4	1,090.4	1,053.4
65–74 years . . . . .	---	---	---	2,968.4	2,461.7	2,660.8	2,687.1	2,786.2	2,478.3	2,393.5
75–84 years . . . . .	---	---	---	5,607.0	5,389.2	5,787.7	5,828.4	6,157.2	5,351.2	4,775.3
85 years and over . . . . .	---	---	---	12,635.2	11,243.9	10,604.7	13,391.2	11,769.3	10,725.8	9,758.0
<b>Asian or Pacific Islander male<sup>3</sup></b>										
All ages, age adjusted <sup>2</sup> . . . . .	---	---	---	786.5	716.4	693.4	646.9	641.2	624.2	597.4
All ages, crude . . . . .	---	---	---	375.3	334.3	341.4	335.4	333.2	332.9	335.0
Under 1 year . . . . .	---	---	---	816.5	605.3	468.3	444.0	451.0	529.4	438.8
1–4 years . . . . .	---	---	---	50.9	45.0	28.0	18.9	28.9	23.3	23.5
5–14 years . . . . .	---	---	---	23.4	20.7	19.6	18.3	13.5	12.9	13.6
15–24 years . . . . .	---	---	---	80.8	76.0	73.0	53.4	51.6	55.2	59.2
25–34 years . . . . .	---	---	---	83.5	79.6	75.4	65.8	57.3	55.0	62.4
35–44 years . . . . .	---	---	---	128.3	130.8	124.9	105.2	108.2	104.9	108.2
45–54 years . . . . .	---	---	---	342.3	287.1	273.0	265.1	240.1	249.7	253.6
55–64 years . . . . .	---	---	---	881.1	789.1	714.2	676.7	661.0	642.4	625.5
65–74 years . . . . .	---	---	---	2,236.1	2,041.4	1,894.8	1,745.9	1,689.5	1,661.0	1,556.0
75–84 years . . . . .	---	---	---	5,389.5	5,008.6	4,729.9	4,466.3	4,457.0	4,328.2	4,168.9
85 years and over . . . . .	---	---	---	13,753.6	12,446.3	13,252.0	12,462.8	12,732.5	12,125.3	11,308.9
<b>Hispanic or Latino male<sup>3,6</sup></b>										
All ages, age adjusted <sup>2</sup> . . . . .	---	---	---	---	886.4	897.6	833.6	830.5	818.1	802.5
All ages, crude . . . . .	---	---	---	---	411.6	391.6	336.0	332.6	331.3	332.9
Under 1 year . . . . .	---	---	---	---	921.8	684.6	662.1	623.4	637.1	624.4
1–4 years . . . . .	---	---	---	---	53.8	39.3	32.0	32.9	31.5	33.8
5–14 years . . . . .	---	---	---	---	26.0	24.6	18.8	17.8	17.9	16.6
15–24 years . . . . .	---	---	---	---	159.3	147.3	109.9	104.1	107.7	111.5
25–34 years . . . . .	---	---	---	---	234.0	196.7	121.5	120.6	120.2	118.0
35–44 years . . . . .	---	---	---	---	341.8	333.6	217.7	215.1	211.0	208.5
45–54 years . . . . .	---	---	---	---	533.9	528.5	440.8	444.4	439.0	443.9
55–64 years . . . . .	---	---	---	---	1,123.7	1,076.9	980.9	974.8	965.7	923.9
65–74 years . . . . .	---	---	---	---	2,368.2	2,429.3	2,432.6	2,368.9	2,287.9	2,242.6
75–84 years . . . . .	---	---	---	---	5,369.1	5,557.4	5,362.8	5,379.2	5,395.3	5,258.0
85 years and over . . . . .	---	---	---	---	12,272.1	13,295.9	13,329.3	13,485.9	13,086.2	12,888.3

See footnotes at end of table.

**Table 35 (page 3 of 4). Death rates for all causes, according to sex, race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1950<sup>1</sup></i>	<i>1960<sup>1</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>1998</i>	<i>1999</i>	<i>2000</i>	<i>2001</i>
White, not Hispanic or Latino male <sup>6</sup>	Deaths per 100,000 resident population									
All ages, age adjusted <sup>2</sup>	---	---	---	---	1,170.9	1,105.6	1,046.7	1,045.5	1,035.4	1,012.8
All ages, crude	---	---	---	---	985.9	984.8	969.2	979.6	978.5	975.6
Under 1 year	---	---	---	---	865.4	703.8	662.3	658.1	658.7	611.6
1–4 years	---	---	---	---	43.8	37.8	32.2	33.4	32.4	33.7
5–14 years	---	---	---	---	25.7	23.5	20.8	19.9	20.0	18.6
15–24 years	---	---	---	---	123.4	111.5	102.9	100.8	103.5	105.1
25–34 years	---	---	---	---	165.3	163.5	124.4	124.5	123.0	131.5
35–44 years	---	---	---	---	257.1	276.5	231.0	230.0	233.9	241.6
45–54 years	---	---	---	---	544.5	520.7	480.2	483.7	497.7	502.6
55–64 years	---	---	---	---	1,479.7	1,322.7	1,204.5	1,187.4	1,170.9	1,136.3
65–74 years	---	---	---	---	3,434.5	3,188.5	3,062.6	3,023.2	2,930.5	2,869.4
75–84 years	---	---	---	---	7,920.4	7,367.4	7,098.1	7,088.0	6,977.8	6,851.5
85 years and over	---	---	---	---	18,505.4	18,132.6	17,649.2	17,871.2	17,853.2	17,055.3
White female <sup>3</sup>										
All ages, age adjusted <sup>2</sup>	1,198.0	1,074.4	944.0	796.1	728.8	718.7	707.3	716.6	715.3	706.7
All ages, crude	803.3	800.9	812.6	806.1	846.9	883.2	891.6	910.4	912.3	907.9
Under 1 year	2,566.8	2,007.7	1,614.6	962.5	690.0	574.4	570.5	542.0	550.5	511.5
1–4 years	112.2	85.2	66.1	49.3	36.1	31.3	27.6	27.5	25.5	27.1
5–14 years	45.1	34.7	29.9	22.9	17.9	16.5	14.7	14.6	14.1	13.9
15–24 years	71.5	54.9	61.6	55.5	45.9	43.7	40.6	41.5	41.1	40.8
25–34 years	112.8	85.0	84.1	65.4	61.5	62.9	56.5	56.2	55.1	58.6
35–44 years	235.8	191.1	193.3	138.2	117.4	125.5	122.0	123.2	125.7	131.0
45–54 years	546.4	458.8	462.9	372.7	309.3	291.9	274.8	277.9	281.4	286.8
55–64 years	1,293.8	1,078.9	1,014.9	876.2	822.7	783.4	733.0	731.0	730.9	712.2
65–74 years	3,242.8	2,779.3	2,470.7	2,066.6	1,923.5	1,913.2	1,893.1	1,893.9	1,868.3	1,840.2
75–84 years	8,481.5	7,696.6	6,698.7	5,401.7	4,839.1	4,775.3	4,721.8	4,787.8	4,785.3	4,738.5
85 years and over	19,679.5	19,477.7	15,980.2	14,979.6	14,400.6	14,405.8	14,498.9	14,900.6	14,890.7	14,597.6
Black or African American female <sup>3</sup>										
All ages, age adjusted <sup>2</sup>	1,545.5	1,369.7	1,228.7	1,033.3	975.1	955.9	921.6	933.6	927.6	912.5
All ages, crude	1,002.0	905.0	829.2	733.3	747.9	743.2	722.6	734.3	733.0	727.7
Under 1 year	---	4,162.2	3,368.8	2,123.7	1,735.5	1,399.9	1,321.9	1,317.4	1,279.8	1,176.3
1–4 years	1,139.3	173.3	129.4	84.4	67.6	59.5	48.8	46.1	45.3	41.7
5–14 years	72.8	53.8	43.8	30.5	27.5	25.4	21.5	20.9	20.0	18.7
15–24 years	213.1	107.5	111.9	70.5	68.7	68.9	56.7	58.6	58.3	54.9
25–34 years	393.3	273.2	231.0	150.0	159.5	162.8	125.7	117.6	121.8	117.9
35–44 years	758.1	568.5	533.0	323.9	298.6	324.9	281.9	279.4	271.9	278.0
45–54 years	1,576.4	1,177.0	1,043.9	768.2	639.4	612.1	572.5	569.8	588.3	579.1
55–64 years	3,089.4	2,510.9	1,986.2	1,561.0	1,452.6	1,354.3	1,279.8	1,262.7	1,227.2	1,215.5
65–74 years	4,000.2	4,064.2	3,860.9	3,057.4	2,865.7	2,837.5	2,744.2	2,751.5	2,689.6	2,616.1
75–84 years <sup>5</sup>	8,347.0	6,730.0	6,691.5	6,212.1	5,688.3	5,671.9	5,601.0	5,742.4	5,696.5	5,591.6
85 years and over	---	13,052.6	10,706.6	12,367.2	13,309.5	13,073.3	13,252.2	13,805.9	13,941.3	13,849.9
American Indian or Alaska Native female <sup>3</sup>										
All ages, age adjusted <sup>2</sup>	---	---	---	662.4	561.8	643.9	640.5	668.2	604.5	594.0
All ages, crude	---	---	---	380.1	330.4	360.1	354.2	367.1	346.1	360.2
Under 1 year	---	---	---	1,352.6	688.7	780.6	743.8	682.6	492.2	577.5
1–4 years	---	---	---	87.5	37.8	54.4	43.8	34.2	39.8	48.5
5–14 years	---	---	---	33.5	25.5	20.0	16.2	17.6	17.7	18.6
15–24 years	---	---	---	90.3	69.0	60.4	57.5	59.6	58.9	59.6
25–34 years	---	---	---	178.5	102.3	106.3	103.9	106.9	84.8	81.4
35–44 years	---	---	---	286.0	156.4	171.9	160.4	168.9	171.9	172.6
45–54 years	---	---	---	491.4	380.9	349.1	326.8	298.7	284.9	334.3
55–64 years	---	---	---	837.1	805.9	876.2	781.6	852.3	772.1	749.4
65–74 years	---	---	---	1,765.5	1,679.4	1,935.6	1,938.1	2,015.8	1,899.8	1,801.7
75–84 years	---	---	---	3,612.9	3,073.2	4,067.6	4,000.8	4,266.5	3,850.0	3,839.7
85 years and over	---	---	---	8,567.4	8,201.1	9,201.8	10,165.3	10,639.6	9,118.2	8,492.0

See footnotes at end of table.



**Table 35 (page 4 of 4). Death rates for all causes, according to sex, race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

Sex, race, Hispanic origin, and age	1950 <sup>1</sup>	1960 <sup>1</sup>	1970	1980	1990	1995	1998	1999	2000	2001
Deaths per 100,000 resident population										
Asian or Pacific Islander female <sup>3</sup>										
All ages, age adjusted <sup>2</sup>	---	---	---	425.9	469.3	446.7	426.7	427.5	416.8	412.0
All ages, crude	---	---	---	222.5	234.3	250.4	254.9	262.5	262.3	274.4
Under 1 year	---	---	---	755.8	518.2	396.6	436.6	425.3	434.3	385.0
1–4 years	---	---	---	35.4	32.0	24.9	21.3	20.9	20.0	21.1
5–14 years	---	---	---	21.5	13.0	15.4	12.8	11.9	11.7	10.8
15–24 years	---	---	---	32.3	28.8	31.1	26.2	26.1	22.4	26.6
25–34 years	---	---	---	45.4	37.5	35.6	31.3	29.5	27.6	32.9
35–44 years	---	---	---	89.7	69.9	66.2	60.4	59.0	65.6	61.9
45–54 years	---	---	---	214.1	182.7	184.1	153.7	164.4	155.5	158.5
55–64 years	---	---	---	440.8	483.4	457.7	397.8	408.7	390.9	379.9
65–74 years	---	---	---	1,027.7	1,089.2	1,037.8	1,062.7	1,070.8	996.4	1,059.9
75–84 years	---	---	---	2,833.6	3,127.9	3,089.9	2,892.0	2,930.8	2,882.4	2,814.4
85 years and over	---	---	---	7,923.3	10,254.0	9,406.1	9,325.2	9,126.7	9,052.2	8,706.2
Hispanic or Latino female <sup>3,6</sup>										
All ages, age adjusted <sup>2</sup>	---	---	---	---	537.1	546.1	536.9	555.9	546.0	544.2
All ages, crude	---	---	---	---	285.4	281.9	270.0	277.2	274.6	279.0
Under 1 year	---	---	---	---	746.6	572.0	559.0	542.3	553.6	518.9
1–4 years	---	---	---	---	42.1	33.1	26.7	28.7	27.5	27.2
5–14 years	---	---	---	---	17.3	15.0	13.1	13.3	13.4	12.7
15–24 years	---	---	---	---	40.6	37.5	31.2	32.9	31.7	33.7
25–34 years	---	---	---	---	62.9	58.6	45.0	44.9	43.4	45.2
35–44 years	---	---	---	---	109.3	118.9	94.9	97.4	100.5	97.0
45–54 years	---	---	---	---	253.3	238.8	225.2	224.9	223.8	226.7
55–64 years	---	---	---	---	607.5	602.3	563.5	555.8	548.4	543.0
65–74 years	---	---	---	---	1,453.8	1,457.2	1,465.5	1,448.8	1,423.2	1,408.0
75–84 years	---	---	---	---	3,351.3	3,506.4	3,530.2	3,675.7	3,624.5	3,589.8
85 years and over	---	---	---	---	10,098.7	10,540.5	10,662.6	11,547.3	11,202.8	11,300.5
White, non-Hispanic or Latino female <sup>6</sup>										
All ages, age adjusted <sup>2</sup>	---	---	---	---	734.6	721.1	712.8	722.3	721.5	713.5
All ages, crude	---	---	---	---	903.6	951.7	976.5	1,001.3	1,007.3	1,006.1
Under 1 year	---	---	---	---	655.3	553.9	556.7	524.6	530.9	496.4
1–4 years	---	---	---	---	34.0	30.3	27.4	26.7	24.4	26.3
5–14 years	---	---	---	---	17.6	16.4	14.8	14.7	13.9	13.9
15–24 years	---	---	---	---	46.0	44.0	42.0	42.9	42.6	41.9
25–34 years	---	---	---	---	60.6	62.2	57.9	57.8	56.8	60.9
35–44 years	---	---	---	---	116.8	124.1	124.3	125.6	128.1	134.9
45–54 years	---	---	---	---	312.1	293.0	277.4	281.0	285.0	291.0
55–64 years	---	---	---	---	834.5	789.8	742.5	741.6	742.1	723.5
65–74 years	---	---	---	---	1,940.2	1,925.9	1,910.9	1,915.1	1,891.0	1,864.1
75–84 years	---	---	---	---	4,887.3	4,794.9	4,753.6	4,817.7	4,819.3	4,777.3
85 years and over	---	---	---	---	14,533.1	14,450.9	14,576.7	14,967.5	14,971.7	14,670.6

--- Data not available.

<sup>1</sup>Includes deaths of persons who were not residents of the 50 States and the District of Columbia.

<sup>2</sup>Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment.

<sup>3</sup>The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Persons of Hispanic origin may be of any race. Death rates for the American Indian or Alaska Native and Asian or Pacific Islander populations are known to be underestimated. See Appendix II, Race, for a discussion of sources of bias in death rates by race and Hispanic origin.

<sup>4</sup>In 1950 rate is for the age group under 5 years.

<sup>5</sup>In 1950 rate is for the age group 75 years and over.

<sup>6</sup>Prior to 1997, excludes data from States lacking an Hispanic-origin item on the death certificate. See Appendix I, Hispanic origin.

NOTES: Population estimates used to compute rates for 1991–2000 differ from those used previously. Starting with *Health, United States, 2003*, rates for 1991–99 were revised using intercensal population estimates based on Census 2000. Rates for 2000 were revised based on Census 2000 counts. Rates for 2001 were computed using 2000-based postcensal estimates. See Appendix I, Population Census and Population Estimates. Data for additional years are available. See Appendix III.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System; Grove RD, Hetzel AM. *Vital statistics rates in the United States, 1940–60*. Washington: U.S. Government Printing Office, 1968; numerator data from National Vital Statistics System, annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates for 1985–96 prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census; additional mortality tables are available at [www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm](http://www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm); Arias E, Anderson RN, Kung HC, Murphy SL, Kochanek KD. Deaths: Final data for 2001. National vital statistics reports. Vol 52 no 3. Hyattsville, Maryland: National Center for Health Statistics. 2003.



**Table 36 (page 1 of 3). Death rates for diseases of heart, according to sex, race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1950<sup>1</sup></i>	<i>1960<sup>1</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>2000<sup>2</sup></i>	<i>2001</i>
Deaths per 100,000 resident population								
All persons								
All ages, age adjusted <sup>3</sup> . . . . .	586.8	559.0	492.7	412.1	321.8	293.4	257.6	247.8
All ages, crude . . . . .	355.5	369.0	362.0	336.0	289.5	277.0	252.6	245.8
Under 1 year . . . . .	3.5	6.6	13.1	22.8	20.1	17.4	13.0	11.9
1–4 years . . . . .	1.3	1.3	1.7	2.6	1.9	1.6	1.2	1.5
5–14 years . . . . .	2.1	1.3	0.8	0.9	0.9	0.8	0.7	0.7
15–24 years . . . . .	6.8	4.0	3.0	2.9	2.5	2.8	2.6	2.5
25–34 years . . . . .	19.4	15.6	11.4	8.3	7.6	8.2	7.4	8.0
35–44 years . . . . .	86.4	74.6	66.7	44.6	31.4	31.8	29.2	29.6
45–54 years . . . . .	308.6	271.8	238.4	180.2	120.5	109.6	94.2	92.9
55–64 years . . . . .	808.1	737.9	652.3	494.1	367.3	320.1	261.2	246.9
65–74 years . . . . .	1,839.8	1,740.5	1,558.2	1,218.6	894.3	795.4	665.6	635.1
75–84 years . . . . .	4,310.1	4,089.4	3,683.8	2,993.1	2,295.7	2,050.5	1,780.3	1,725.7
85 years and over . . . . .	9,150.6	9,317.8	7,891.3	7,777.1	6,739.9	6,391.5	5,926.1	5,664.2
Male								
All ages, age adjusted <sup>3</sup> . . . . .	697.0	687.6	634.0	538.9	412.4	371.0	320.0	305.4
All ages, crude . . . . .	423.4	439.5	422.5	368.6	297.6	278.5	249.8	242.5
Under 1 year . . . . .	4.0	7.8	15.1	25.5	21.9	17.7	13.3	11.8
1–4 years . . . . .	1.4	1.4	1.9	2.8	1.9	1.7	1.4	1.5
5–14 years . . . . .	2.0	1.4	0.9	1.0	0.9	0.8	0.8	0.7
15–24 years . . . . .	6.8	4.2	3.7	3.7	3.1	3.5	3.2	3.2
25–34 years . . . . .	22.9	20.1	15.2	11.4	10.3	11.0	9.6	10.3
35–44 years . . . . .	118.4	112.7	103.2	68.7	48.1	46.9	41.4	41.7
45–54 years . . . . .	440.5	420.4	376.4	282.6	183.0	166.1	140.2	136.6
55–64 years . . . . .	1,104.5	1,066.9	987.2	746.8	537.3	460.1	371.7	349.8
65–74 years . . . . .	2,292.3	2,291.3	2,170.3	1,728.0	1,250.0	1,095.3	898.3	851.3
75–84 years . . . . .	4,825.0	4,742.4	4,534.8	3,834.3	2,968.2	2,622.9	2,248.1	2,177.3
85 years and over . . . . .	9,659.8	9,788.9	8,426.2	8,752.7	7,418.4	6,993.5	6,430.0	6,040.5
Female								
All ages, age adjusted <sup>3</sup> . . . . .	484.7	447.0	381.6	320.8	257.0	236.6	210.9	203.9
All ages, crude . . . . .	288.4	300.6	304.5	305.1	281.8	275.5	255.3	249.0
Under 1 year . . . . .	2.9	5.4	10.9	20.0	18.3	17.0	12.5	12.0
1–4 years . . . . .	1.2	1.1	1.6	2.5	1.9	1.5	1.0	1.4
5–14 years . . . . .	2.2	1.2	0.8	0.9	0.8	0.7	0.5	0.7
15–24 years . . . . .	6.7	3.7	2.3	2.1	1.8	2.1	2.1	1.8
25–34 years . . . . .	16.2	11.3	7.7	5.3	5.0	5.4	5.2	5.6
35–44 years . . . . .	55.1	38.2	32.2	21.4	15.1	17.0	17.2	17.6
45–54 years . . . . .	177.2	127.5	109.9	84.5	61.0	55.4	49.8	50.7
55–64 years . . . . .	510.0	429.4	351.6	272.1	215.7	192.6	159.3	151.8
65–74 years . . . . .	1,419.3	1,261.3	1,082.7	828.6	616.8	554.9	474.0	455.9
75–84 years . . . . .	3,872.0	3,582.7	3,120.8	2,497.0	1,893.8	1,692.7	1,475.1	1,428.9
85 years and over . . . . .	8,796.1	9,016.8	7,591.8	7,350.5	6,478.1	6,159.6	5,720.9	5,506.8
White male <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	700.2	694.5	640.2	539.6	409.2	367.0	316.7	301.8
All ages, crude . . . . .	433.0	454.6	438.3	384.0	312.7	294.4	265.8	257.8
45–54 years . . . . .	423.6	413.2	365.7	269.8	170.6	153.9	130.7	127.0
55–64 years . . . . .	1,081.7	1,056.0	979.3	730.6	516.7	439.2	351.8	330.8
65–74 years . . . . .	2,308.3	2,297.9	2,177.2	1,729.7	1,230.5	1,071.8	877.8	829.1
75–84 years . . . . .	4,907.3	4,839.9	4,617.6	3,883.2	2,983.4	2,625.6	2,247.0	2,175.8
85 years and over . . . . .	9,950.5	10,135.8	8,818.0	8,958.0	7,558.7	7,125.1	6,560.8	6,157.2
Black or African American male <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	639.4	615.2	607.3	561.4	485.4	451.3	392.5	384.5
All ages, crude . . . . .	346.2	330.6	330.3	301.0	256.8	239.1	211.1	209.0
45–54 years . . . . .	622.5	514.0	512.8	433.4	328.9	308.6	247.2	242.6
55–64 years . . . . .	1,433.1	1,236.8	1,135.4	987.2	824.0	740.5	631.2	602.2
65–74 years . . . . .	2,139.1	2,281.4	2,237.8	1,847.2	1,632.9	1,514.1	1,268.8	1,245.8
75–84 years <sup>5</sup> . . . . .	4,106.1	3,533.6	3,783.4	3,578.8	3,107.1	2,908.7	2,597.6	2,569.3
85 years and over . . . . .	---	6,037.9	5,367.6	6,819.5	6,479.6	6,088.5	5,633.5	5,459.9

See footnotes at end of table.

**Table 36 (page 2 of 3). Death rates for diseases of heart, according to sex, race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1950<sup>1</sup></i>	<i>1960<sup>1</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>2000<sup>2</sup></i>	<i>2001</i>
Deaths per 100,000 resident population								
American Indian or Alaska Native male <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	320.5	264.1	256.4	222.2	200.7
All ages, crude . . . . .	---	---	---	130.6	108.0	101.0	90.1	89.1
45–54 years . . . . .	---	---	---	238.1	173.8	136.2	108.5	109.1
55–64 years . . . . .	---	---	---	496.3	411.0	375.7	285.0	301.1
65–74 years . . . . .	---	---	---	1,009.4	839.1	938.2	748.2	682.1
75–84 years . . . . .	---	---	---	2,062.2	1,788.8	1,858.5	1,655.7	1,384.5
85 years and over . . . . .	---	---	---	4,413.7	3,860.3	3,306.5	3,318.3	2,895.7
Asian or Pacific Islander male <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	286.9	220.7	214.5	185.5	169.8
All ages, crude . . . . .	---	---	---	119.8	88.7	93.2	90.6	87.3
45–54 years . . . . .	---	---	---	112.0	70.4	69.8	61.1	60.1
55–64 years . . . . .	---	---	---	306.7	226.1	205.4	182.6	162.0
65–74 years . . . . .	---	---	---	852.4	623.5	581.0	482.5	439.1
75–84 years . . . . .	---	---	---	2,010.9	1,642.2	1,533.8	1,354.7	1,273.8
85 years and over . . . . .	---	---	---	5,923.0	4,617.8	4,888.9	4,154.2	3,688.1
Hispanic or Latino male <sup>4,6</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	270.0	260.8	238.2	232.6
All ages, crude . . . . .	---	---	---	---	91.0	83.1	74.7	74.6
45–54 years . . . . .	---	---	---	---	116.4	102.0	84.3	82.9
55–64 years . . . . .	---	---	---	---	363.0	311.2	264.8	242.2
65–74 years . . . . .	---	---	---	---	829.9	784.6	684.8	683.7
75–84 years . . . . .	---	---	---	---	1,971.3	1,854.0	1,733.2	1,702.7
85 years and over . . . . .	---	---	---	---	4,711.9	5,104.0	4,897.5	4,784.3
White, not Hispanic or Latino male <sup>6</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	413.6	369.1	319.9	304.8
All ages, crude . . . . .	---	---	---	---	336.5	320.6	297.5	289.5
45–54 years . . . . .	---	---	---	---	172.8	155.9	134.3	130.7
55–64 years . . . . .	---	---	---	---	521.3	443.2	356.3	335.8
65–74 years . . . . .	---	---	---	---	1,243.4	1,077.0	885.1	834.7
75–84 years . . . . .	---	---	---	---	3,007.7	2,635.3	2,261.9	2,190.4
85 years and over . . . . .	---	---	---	---	7,663.4	7,156.4	6,606.6	6,195.4
White female <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	478.0	441.7	376.7	315.9	250.9	230.8	205.6	198.7
All ages, crude . . . . .	289.4	306.5	313.8	319.2	298.4	294.7	274.5	267.7
45–54 years . . . . .	141.9	103.4	91.4	71.2	50.2	45.5	40.9	41.5
55–64 years . . . . .	460.2	383.0	317.7	248.1	192.4	172.0	141.3	134.3
65–74 years . . . . .	1,400.9	1,229.8	1,044.0	796.7	583.6	523.2	445.2	429.0
75–84 years . . . . .	3,925.2	3,629.7	3,143.5	2,493.6	1,874.3	1,670.3	1,452.4	1,407.9
85 years and over . . . . .	9,084.7	9,280.8	7,839.9	7,501.6	6,563.4	6,251.3	5,801.4	5,582.5
Black or African American female <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	536.9	488.9	435.6	378.6	327.5	304.0	277.6	269.8
All ages, crude . . . . .	287.6	268.5	261.0	249.7	237.0	226.3	212.6	208.6
45–54 years . . . . .	525.3	360.7	290.9	202.4	155.3	141.5	125.0	125.9
55–64 years . . . . .	1,210.2	952.3	710.5	530.1	442.0	386.0	332.8	323.1
65–74 years . . . . .	1,659.4	1,680.5	1,553.2	1,210.3	1,017.5	938.2	815.2	768.0
75–84 years <sup>5</sup> . . . . .	3,499.3	2,926.9	2,964.1	2,707.2	2,250.9	2,100.7	1,913.1	1,849.6
85 years and over . . . . .	---	5,650.0	5,003.8	5,796.5	5,766.1	5,448.5	5,298.7	5,207.3

See footnotes at end of table.

**Table 36 (page 3 of 3). Death rates for diseases of heart, according to sex, race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1950<sup>1</sup></i>	<i>1960<sup>1</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>2000<sup>2</sup></i>	<i>2001</i>
Deaths per 100,000 resident population								
American Indian or Alaska Native female <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	175.4	153.1	164.8	143.6	127.0
All ages, crude . . . . .	---	---	---	80.3	77.5	80.2	71.9	68.2
45–54 years . . . . .	---	---	---	65.2	62.0	62.4	40.2	42.7
55–64 years . . . . .	---	---	---	193.5	197.0	200.7	149.4	126.5
65–74 years . . . . .	---	---	---	577.2	492.8	514.2	391.8	384.2
75–84 years . . . . .	---	---	---	1,364.3	1,050.3	1,184.3	1,044.1	934.3
85 years and over . . . . .	---	---	---	2,893.3	2,868.7	3,118.1	3,146.3	2,510.3
Asian or Pacific Islander female <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	132.3	149.2	137.6	115.7	112.9
All ages, crude . . . . .	---	---	---	57.0	62.0	66.3	65.0	67.9
45–54 years . . . . .	---	---	---	28.6	17.5	20.8	15.9	18.4
55–64 years . . . . .	---	---	---	92.9	99.0	89.5	68.8	62.8
65–74 years . . . . .	---	---	---	313.3	323.9	288.3	229.6	241.7
75–84 years . . . . .	---	---	---	1,053.2	1,130.9	1,001.8	866.2	848.7
85 years and over . . . . .	---	---	---	3,211.0	4,161.2	3,942.4	3,367.2	3,186.3
Hispanic or Latino female <sup>4,6</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	177.2	173.8	163.7	161.0
All ages, crude . . . . .	---	---	---	---	79.4	76.5	71.5	71.8
45–54 years . . . . .	---	---	---	---	43.5	32.0	28.2	27.9
55–64 years . . . . .	---	---	---	---	153.2	141.0	111.2	107.2
65–74 years . . . . .	---	---	---	---	460.4	419.0	366.3	363.1
75–84 years . . . . .	---	---	---	---	1,259.7	1,231.3	1,169.4	1,155.7
85 years and over . . . . .	---	---	---	---	4,440.3	4,653.1	4,605.8	4,521.1
White, not Hispanic or Latino female <sup>5</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	252.6	231.5	206.8	200.0
All ages, crude . . . . .	---	---	---	---	320.0	319.7	304.9	298.4
45–54 years . . . . .	---	---	---	---	50.2	46.1	41.9	42.7
55–64 years . . . . .	---	---	---	---	193.6	172.0	142.9	136.0
65–74 years . . . . .	---	---	---	---	584.7	525.2	448.5	431.8
75–84 years . . . . .	---	---	---	---	1,890.2	1,674.9	1,458.9	1,414.7
85 years and over . . . . .	---	---	---	---	6,615.2	6,265.8	5,822.7	5,601.6

--- Data not available.

<sup>1</sup>Includes deaths of persons who were not residents of the 50 States and the District of Columbia.

<sup>2</sup>Starting with 1999 data, cause of death is coded according to ICD–10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

<sup>3</sup>Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment.

<sup>4</sup>The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Persons of Hispanic origin may be of any race. Death rates for the American Indian or Alaska Native and Asian or Pacific Islander populations are known to be underestimated. See Appendix II, Race, for a discussion of sources of bias in death rates by race and Hispanic origin.

<sup>5</sup>In 1950 rate is for the age group 75 years and over.

<sup>6</sup>Prior to 1997, excludes data from States lacking an Hispanic-origin item on the death certificate. See Appendix II, Hispanic origin.

NOTES: Population estimates used to compute rates for 1991–2000 differ from those used previously. Starting with *Health, United States, 2003*, rates for 1991–99 were revised using intercensal population estimates based on Census 2000. Rates for 2000 were revised based on Census 2000 counts. Rates for 2001 were computed using 2000-based postcensal estimates. See Appendix I, Population Census and Population Estimates. Underlying cause of death code numbers are based on the applicable revision of the *International Classification of Diseases (ICD)* for data years shown. For the period 1980–98, causes were coded using ICD–9 codes that are most nearly comparable with the 113 cause list for ICD–10. See Appendix II, tables IV and V. Age groups were selected to minimize the presentation of unstable age-specific death rates based on small numbers of deaths and for consistency among comparison groups. Data for additional years are available. See Appendix III.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System; numerator data from annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates for 1985–96 prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census; additional mortality tables are available at [www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm](http://www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm); Arias E, Anderson RN, Kung HC, Murphy SL, Kochanek KD. Deaths: Final data for 2001. National vital statistics reports. Vol 52 no 3. Hyattsville, Maryland: National Center for Health Statistics. 2003.

**Table 37 (page 1 of 3). Death rates for cerebrovascular diseases, according to sex, race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1950<sup>1</sup></i>	<i>1960<sup>1</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>2000<sup>2</sup></i>	<i>2001</i>
Deaths per 100,000 resident population								
<b>All persons</b>								
All ages, age adjusted <sup>3</sup> . . . . .	180.7	177.9	147.7	96.2	65.3	63.1	60.9	57.9
All ages, crude . . . . .	104.0	108.0	101.9	75.0	57.8	59.2	59.6	57.4
Under 1 year . . . . .	5.1	4.1	5.0	4.4	3.8	5.9	3.3	2.7
1–4 years . . . . .	0.9	0.8	1.0	0.5	0.3	0.4	0.3	0.4
5–14 years . . . . .	0.5	0.7	0.7	0.3	0.2	0.2	0.2	0.2
15–24 years . . . . .	1.6	1.8	1.6	1.0	0.6	0.5	0.5	0.5
25–34 years . . . . .	4.2	4.7	4.5	2.6	2.2	1.7	1.5	1.5
35–44 years . . . . .	18.7	14.7	15.6	8.5	6.4	6.5	5.8	5.5
45–54 years . . . . .	70.4	49.2	41.6	25.2	18.7	17.4	16.0	15.1
55–64 years . . . . .	194.2	147.3	115.8	65.1	47.9	45.6	41.0	38.0
65–74 years . . . . .	554.7	469.2	384.1	219.0	144.2	136.2	128.6	123.4
75–84 years . . . . .	1,499.6	1,491.3	1,254.2	786.9	498.0	477.1	461.3	443.9
85 years and over . . . . .	2,990.1	3,680.5	3,014.3	2,283.7	1,628.9	1,607.2	1,589.2	1,500.2
<b>Male</b>								
All ages, age adjusted <sup>3</sup> . . . . .	186.4	186.1	157.4	102.2	68.5	65.9	62.4	59.0
All ages, crude . . . . .	102.5	104.5	94.5	63.4	46.7	47.2	46.9	45.2
Under 1 year . . . . .	6.4	5.0	5.8	5.0	4.4	6.4	3.8	3.1
1–4 years . . . . .	1.1	0.9	1.2	0.4	0.3	0.4	*	0.3
5–14 years . . . . .	0.5	0.7	0.8	0.3	0.2	0.2	0.2	0.2
15–24 years . . . . .	1.8	1.9	1.8	1.1	0.7	0.5	0.5	0.5
25–34 years . . . . .	4.2	4.5	4.4	2.6	2.1	1.8	1.5	1.6
35–44 years . . . . .	17.5	14.6	15.7	8.7	6.8	7.0	5.8	5.7
45–54 years . . . . .	67.9	52.2	44.4	27.2	20.5	19.5	17.5	16.7
55–64 years . . . . .	205.2	163.8	138.7	74.6	54.3	52.7	47.2	43.4
65–74 years . . . . .	589.6	530.7	449.5	258.6	166.6	154.7	145.0	140.4
75–84 years . . . . .	1,543.6	1,555.9	1,361.6	866.3	551.1	517.7	490.8	467.3
85 years and over . . . . .	3,048.6	3,643.1	2,895.2	2,193.6	1,528.5	1,522.1	1,484.3	1,380.2
<b>Female</b>								
All ages, age adjusted <sup>3</sup> . . . . .	175.8	170.7	140.0	91.7	62.6	60.5	59.1	56.4
All ages, crude . . . . .	105.6	111.4	109.0	85.9	68.4	70.7	71.8	69.2
Under 1 year . . . . .	3.7	3.2	4.0	3.8	3.1	5.3	2.7	2.3
1–4 years . . . . .	0.7	0.7	0.7	0.5	0.3	0.3	0.4	0.4
5–14 years . . . . .	0.4	0.6	0.6	0.3	0.2	0.1	0.2	0.2
15–24 years . . . . .	1.5	1.6	1.4	0.8	0.6	0.4	0.5	0.5
25–34 years . . . . .	4.3	4.9	4.7	2.6	2.2	1.6	1.5	1.5
35–44 years . . . . .	19.9	14.8	15.6	8.4	6.1	6.0	5.7	5.4
45–54 years . . . . .	72.9	46.3	39.0	23.3	17.0	15.3	14.5	13.6
55–64 years . . . . .	183.1	131.8	95.3	56.8	42.2	39.1	35.3	32.9
65–74 years . . . . .	522.1	415.7	333.3	188.7	126.7	121.4	115.1	109.3
75–84 years . . . . .	1,462.2	1,441.1	1,183.1	740.1	466.2	451.8	442.1	428.6
85 years and over . . . . .	2,949.4	3,704.4	3,081.0	2,323.1	1,667.6	1,640.0	1,632.0	1,550.4
<b>White male<sup>4</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	182.1	181.6	153.7	98.7	65.5	62.9	59.8	56.5
All ages, crude . . . . .	100.5	102.7	93.5	63.1	46.9	48.0	48.4	46.6
45–54 years . . . . .	53.7	40.9	35.6	21.7	15.4	14.7	13.6	12.7
55–64 years . . . . .	182.2	139.0	119.9	64.0	45.7	44.2	39.7	36.1
65–74 years . . . . .	569.7	501.0	420.0	239.8	152.9	142.1	133.8	128.5
75–84 years . . . . .	1,556.3	1,564.8	1,361.6	852.7	539.2	503.8	480.0	458.8
85 years and over . . . . .	3,127.1	3,734.8	3,018.1	2,230.8	1,545.4	1,536.0	1,490.7	1,386.2
<b>Black or African American male<sup>4</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	228.8	238.5	206.4	142.0	102.2	97.0	89.6	85.4
All ages, crude . . . . .	122.0	122.9	108.8	73.0	53.0	49.8	46.1	44.6
45–54 years . . . . .	211.9	166.1	136.1	82.1	68.4	62.3	49.5	48.8
55–64 years . . . . .	522.8	439.9	343.4	189.7	141.7	130.8	115.4	111.9
65–74 years . . . . .	783.6	899.2	780.1	472.3	326.9	297.0	268.5	269.2
75–84 years <sup>5</sup> . . . . .	1,504.9	1,475.2	1,445.7	1,066.3	721.5	705.9	659.2	613.9
85 years and over . . . . .	---	2,700.0	1,963.1	1,873.2	1,421.5	1,410.1	1,458.8	1,349.1

See footnotes at end of table.

**Table 37 (page 2 of 3). Death rates for cerebrovascular diseases, according to sex, race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1950<sup>1</sup></i>	<i>1960<sup>1</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>2000<sup>2</sup></i>	<i>2001</i>
Deaths per 100,000 resident population								
<b>American Indian or Alaska Native male<sup>4</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	66.4	44.3	51.7	46.1	37.5
All ages, crude . . . . .	---	---	---	23.1	16.0	18.4	16.8	14.2
45–54 years . . . . .	---	---	---	*	*	25.5	13.3	12.6
55–64 years . . . . .	---	---	---	72.0	39.8	42.6	48.6	24.1
65–74 years . . . . .	---	---	---	170.5	120.3	156.4	144.7	131.5
75–84 years . . . . .	---	---	---	523.9	325.9	351.2	373.3	247.8
85 years and over . . . . .	---	---	---	1,384.7	949.8	1,072.4	834.9	833.0
<b>Asian or Pacific Islander male<sup>4</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	71.4	59.1	64.0	58.0	55.3
All ages, crude . . . . .	---	---	---	28.7	23.3	27.5	27.2	27.5
45–54 years . . . . .	---	---	---	17.0	15.6	16.5	15.0	15.9
55–64 years . . . . .	---	---	---	59.9	51.8	59.6	49.3	46.2
65–74 years . . . . .	---	---	---	197.9	167.9	155.6	135.6	134.7
75–84 years . . . . .	---	---	---	619.5	483.9	521.9	438.7	409.8
85 years and over . . . . .	---	---	---	1,399.0	1,196.6	1,382.1	1,415.6	1,327.7
<b>Hispanic or Latino male<sup>4,6</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	46.5	51.2	50.5	48.9
All ages, crude . . . . .	---	---	---	---	15.6	16.2	15.8	15.7
45–54 years . . . . .	---	---	---	---	20.0	20.3	18.1	18.7
55–64 years . . . . .	---	---	---	---	49.2	46.9	48.8	43.5
65–74 years . . . . .	---	---	---	---	126.4	138.1	136.1	127.2
75–84 years . . . . .	---	---	---	---	356.6	373.3	392.9	386.3
85 years and over . . . . .	---	---	---	---	866.3	1,079.5	1,029.9	1,005.6
<b>White, not Hispanic or Latino male<sup>6</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	66.3	62.8	59.9	56.5
All ages, crude . . . . .	---	---	---	---	50.6	51.9	53.9	52.0
45–54 years . . . . .	---	---	---	---	14.9	13.9	13.0	11.9
55–64 years . . . . .	---	---	---	---	45.1	43.3	38.7	35.1
65–74 years . . . . .	---	---	---	---	154.5	141.4	133.1	128.0
75–84 years . . . . .	---	---	---	---	547.3	506.2	482.3	460.5
85 years and over . . . . .	---	---	---	---	1,578.7	1,544.8	1,505.9	1,399.0
<b>White female<sup>4</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	169.7	165.0	135.5	89.0	60.3	58.6	57.3	54.5
All ages, crude . . . . .	103.3	110.1	109.8	88.6	71.6	75.1	76.9	74.0
45–54 years . . . . .	55.0	33.8	30.5	18.6	13.5	12.6	11.2	10.2
55–64 years . . . . .	156.9	103.0	78.1	48.6	35.8	33.3	30.2	27.6
65–74 years . . . . .	498.1	383.3	303.2	172.5	116.1	111.7	107.3	99.9
75–84 years . . . . .	1,471.3	1,444.7	1,176.8	728.8	456.5	443.4	434.2	421.6
85 years and over . . . . .	3,017.9	3,795.7	3,167.6	2,362.7	1,685.9	1,656.7	1,646.7	1,563.5
<b>Black or African American female<sup>4</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	238.4	232.5	189.3	119.6	84.0	79.4	76.2	73.7
All ages, crude . . . . .	128.3	127.7	112.2	77.8	60.7	59.1	58.3	56.9
45–54 years . . . . .	248.9	166.2	119.4	61.8	44.1	36.0	38.1	37.3
55–64 years . . . . .	567.7	452.0	272.4	138.4	96.9	85.6	76.4	74.4
65–74 years . . . . .	754.4	830.5	673.5	361.7	236.7	222.3	190.9	189.5
75–84 years <sup>5</sup> . . . . .	1,496.7	1,413.1	1,338.3	917.5	595.0	565.1	549.2	530.3
85 years and over . . . . .	---	2,578.9	2,210.5	1,891.6	1,495.2	1,518.4	1,556.5	1,491.2

See footnotes at end of table.

**Table 37 (page 3 of 3). Death rates for cerebrovascular diseases, according to sex, race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1950<sup>1</sup></i>	<i>1960<sup>1</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>2000<sup>2</sup></i>	<i>2001</i>
Deaths per 100,000 resident population								
American Indian or Alaska Native female <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	51.2	38.4	46.3	43.7	44.0
All ages, crude . . . . .	---	---	---	22.0	19.3	22.0	21.5	23.3
45–54 years . . . . .	---	---	---	*	*	*	14.4	15.1
55–64 years . . . . .	---	---	---	*	40.7	41.5	37.9	30.4
65–74 years . . . . .	---	---	---	128.3	100.5	114.8	79.5	133.3
75–84 years . . . . .	---	---	---	404.2	282.0	364.4	391.1	359.9
85 years and over . . . . .	---	---	---	1,095.5	776.2	983.9	931.5	830.5
Asian or Pacific Islander female <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	60.8	54.9	48.3	49.1	48.2
All ages, crude . . . . .	---	---	---	26.4	24.3	24.2	28.7	29.8
45–54 years . . . . .	---	---	---	20.3	19.7	15.6	13.3	11.3
55–64 years . . . . .	---	---	---	43.7	42.1	37.6	33.3	35.2
65–74 years . . . . .	---	---	---	136.1	124.0	101.0	102.8	113.2
75–84 years . . . . .	---	---	---	446.6	396.6	381.8	386.0	359.6
85 years and over . . . . .	---	---	---	1,545.2	1,395.0	1,197.0	1,246.6	1,236.8
Hispanic or Latino female <sup>4,6</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	43.7	42.7	43.0	41.6
All ages, crude . . . . .	---	---	---	---	20.1	19.4	19.4	19.1
45–54 years . . . . .	---	---	---	---	15.2	15.1	12.4	13.1
55–64 years . . . . .	---	---	---	---	38.5	36.5	31.9	28.2
65–74 years . . . . .	---	---	---	---	102.6	102.3	95.2	89.6
75–84 years . . . . .	---	---	---	---	308.5	307.3	311.3	310.7
85 years and over . . . . .	---	---	---	---	1,055.3	1,021.0	1,108.9	1,061.2
White, not Hispanic or Latino female <sup>5</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	61.0	58.7	57.6	54.8
All ages, crude . . . . .	---	---	---	---	77.2	81.5	85.5	82.6
45–54 years . . . . .	---	---	---	---	13.2	12.3	10.9	9.8
55–64 years . . . . .	---	---	---	---	35.7	32.6	29.9	27.4
65–74 years . . . . .	---	---	---	---	116.9	111.4	107.6	100.3
75–84 years . . . . .	---	---	---	---	461.9	445.9	438.3	425.6
85 years and over . . . . .	---	---	---	---	1,714.7	1,666.8	1,661.6	1,577.4

--- Data not available.

<sup>1</sup>Includes deaths of persons who were not residents of the 50 States and the District of Columbia.

<sup>2</sup>Starting with 1999 data, cause of death is coded according to ICD–10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

<sup>3</sup>Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment.

<sup>4</sup>The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Persons of Hispanic origin may be of any race. Death rates for the American Indian or Alaska Native and Asian or Pacific Islander populations are known to be underestimated. See Appendix II, Race, for a discussion of sources of bias in death rates by race and Hispanic origin.

<sup>5</sup>In 1950 rate is for the age group 75 years and over.

<sup>6</sup>Prior to 1997, excludes data from States lacking an Hispanic-origin item on the death certificate. See Appendix II, Hispanic origin.

NOTES: Population estimates used to compute rates for 1991–2000 differ from those used previously. Starting with *Health, United States, 2003*, rates for 1991–99 were revised using intercensal population estimates based on Census 2000. Rates for 2000 were revised based on Census 2000 counts. Rates for 2001 were computed using 2000-based postcensal estimates. See Appendix I, Population Census and Population Estimates. Underlying cause of death code numbers are based on the applicable revision of the *International Classification of Diseases* (ICD) for data years shown. For the period 1980–98, causes were coded using ICD–9 codes that are most nearly comparable with the 113 cause list for ICD–10. See Appendix II, tables IV and V. Age groups were selected to minimize the presentation of unstable age-specific death rates based on small numbers of deaths and for consistency among comparison groups. Data for additional years are available. See Appendix III.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System; Grove RD, Hetzel AM. Vital statistics rates in the United States, 1940–1960. Washington: U.S. Government Printing Office. 1968; numerator data from National Vital Statistics System, annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates for 1985–96 prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census; additional mortality tables are available at [www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm](http://www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm); Arias E, Anderson RN, Kung HC, Murphy SL, Kochanek KD. Deaths: Final data for 2001. National vital statistics reports. Vol 52 no 3. Hyattsville, Maryland: National Center for Health Statistics. 2003.



**Table 38 (page 1 of 4). Death rates for malignant neoplasms, according to sex, race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1950<sup>1</sup></i>	<i>1960<sup>1</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>2000<sup>2</sup></i>	<i>2001</i>
Deaths per 100,000 resident population								
All persons								
All ages, age adjusted <sup>3</sup> . . . . .	193.9	193.9	198.6	207.9	216.0	209.9	199.6	196.0
All ages, crude . . . . .	139.8	149.2	162.8	183.9	203.2	202.2	196.5	194.4
Under 1 year . . . . .	8.7	7.2	4.7	3.2	2.3	1.8	2.4	1.6
1–4 years . . . . .	11.7	10.9	7.5	4.5	3.5	3.1	2.7	2.7
5–14 years . . . . .	6.7	6.8	6.0	4.3	3.1	2.7	2.5	2.5
15–24 years . . . . .	8.6	8.3	8.3	6.3	4.9	4.5	4.4	4.3
25–34 years . . . . .	20.0	19.5	16.5	13.7	12.6	11.6	9.8	10.1
35–44 years . . . . .	62.7	59.7	59.5	48.6	43.3	40.1	36.6	36.8
45–54 years . . . . .	175.1	177.0	182.5	180.0	158.9	140.4	127.5	126.5
55–64 years . . . . .	390.7	396.8	423.0	436.1	449.6	412.3	366.7	356.5
65–74 years . . . . .	698.8	713.9	754.2	817.9	872.3	863.3	816.3	802.8
75–84 years . . . . .	1,153.3	1,127.4	1,169.2	1,232.3	1,348.5	1,355.4	1,335.6	1,315.8
85 years and over . . . . .	1,451.0	1,450.0	1,320.7	1,594.6	1,752.9	1,797.7	1,819.4	1,765.6
Male								
All ages, age adjusted <sup>3</sup> . . . . .	208.1	225.1	247.6	271.2	280.4	267.5	248.9	243.7
All ages, crude . . . . .	142.9	162.5	182.1	205.3	221.3	216.3	207.2	205.3
Under 1 year . . . . .	9.7	7.7	4.4	3.7	2.4	1.9	2.6	1.5
1–4 years . . . . .	12.5	12.4	8.3	5.2	3.7	3.6	3.0	2.9
5–14 years . . . . .	7.4	7.6	6.7	4.9	3.5	3.0	2.7	2.5
15–24 years . . . . .	9.7	10.2	10.4	7.8	5.7	5.4	5.1	5.0
25–34 years . . . . .	17.7	18.8	16.3	13.4	12.6	11.3	9.2	9.3
35–44 years . . . . .	45.6	48.9	53.0	44.0	38.5	36.3	32.7	32.6
45–54 years . . . . .	156.2	170.8	183.5	188.7	162.5	141.5	130.9	130.3
55–64 years . . . . .	413.1	459.9	511.8	520.8	532.9	475.1	415.8	405.2
65–74 years . . . . .	791.5	890.5	1,006.8	1,093.2	1,122.2	1,083.0	1,001.9	984.6
75–84 years . . . . .	1,332.6	1,389.4	1,588.3	1,790.5	1,914.4	1,847.9	1,760.6	1,727.1
85 years and over . . . . .	1,668.3	1,741.2	1,720.8	2,369.5	2,739.9	2,818.7	2,710.7	2,613.6
Female								
All ages, age adjusted <sup>3</sup> . . . . .	182.3	168.7	163.2	166.7	175.7	173.6	167.6	164.7
All ages, crude . . . . .	136.8	136.4	144.4	163.6	186.0	188.8	186.2	183.9
Under 1 year . . . . .	7.6	6.8	5.0	2.7	2.2	1.8	2.3	1.8
1–4 years . . . . .	10.8	9.3	6.7	3.7	3.2	2.6	2.5	2.5
5–14 years . . . . .	6.0	6.0	5.2	3.6	2.8	2.3	2.2	2.4
15–24 years . . . . .	7.6	6.5	6.2	4.8	4.1	3.5	3.6	3.5
25–34 years . . . . .	22.2	20.1	16.7	14.0	12.6	11.9	10.4	10.9
35–44 years . . . . .	79.3	70.0	65.6	53.1	48.1	43.8	40.4	41.0
45–54 years . . . . .	194.0	183.0	181.5	171.8	155.5	139.3	124.2	122.7
55–64 years . . . . .	368.2	337.7	343.2	361.7	375.2	355.1	321.3	311.5
65–74 years . . . . .	612.3	560.2	557.9	607.1	677.4	687.1	663.6	652.2
75–84 years . . . . .	1,000.7	924.1	891.9	903.1	1,010.3	1,047.5	1,058.5	1,045.4
85 years and over . . . . .	1,299.7	1,263.9	1,096.7	1,255.7	1,372.1	1,404.4	1,456.4	1,410.7
White male <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	210.0	224.7	244.8	265.1	272.2	260.6	243.9	239.2
All ages, crude . . . . .	147.2	166.1	185.1	208.7	227.7	225.3	218.1	216.4
25–34 years . . . . .	17.7	18.8	16.2	13.6	12.3	11.0	9.2	9.3
35–44 years . . . . .	44.5	46.3	50.1	41.1	35.8	34.1	30.9	31.3
45–54 years . . . . .	150.8	164.1	172.0	175.4	149.9	132.7	123.5	123.6
55–64 years . . . . .	409.4	450.9	498.1	497.4	508.2	456.0	401.9	392.1
65–74 years . . . . .	798.7	887.3	997.0	1,070.7	1,090.7	1,056.1	984.3	969.4
75–84 years . . . . .	1,367.6	1,413.7	1,592.7	1,779.7	1,883.2	1,817.4	1,736.0	1,704.6
85 years and over . . . . .	1,732.7	1,791.4	1,772.2	2,375.6	2,715.1	2,789.4	2,693.7	2,597.6
Black or African American male <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	178.9	227.6	291.9	353.4	397.9	374.3	340.3	330.9
All ages, crude . . . . .	106.6	136.7	171.6	205.5	221.9	204.8	188.5	184.5
25–34 years . . . . .	18.0	18.4	18.8	14.1	15.7	14.8	10.1	10.5
35–44 years . . . . .	55.7	72.9	81.3	73.8	64.3	57.2	48.4	44.6
45–54 years . . . . .	211.7	244.7	311.2	333.0	302.6	243.9	214.2	204.8
55–64 years . . . . .	490.8	579.7	689.2	812.5	859.2	738.1	626.4	604.2
65–74 years . . . . .	636.5	938.5	1,168.9	1,417.2	1,613.9	1,541.4	1,363.8	1,335.3
75–84 years <sup>5</sup> . . . . .	853.5	1,053.3	1,624.8	2,029.6	2,478.3	2,449.8	2,351.8	2,290.0
85 years and over . . . . .	---	1,155.2	1,387.0	2,393.9	3,238.3	3,395.5	3,264.8	3,209.9

See footnotes at end of table.

**Table 38 (page 2 of 4). Death rates for malignant neoplasms, according to sex, race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1950<sup>1</sup></i>	<i>1960<sup>1</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>2000<sup>2</sup></i>	<i>2001</i>
Deaths per 100,000 resident population								
<b>American Indian or Alaska Native male<sup>4</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	140.5	145.8	169.0	155.8	155.3
All ages, crude . . . . .	---	---	---	58.1	61.4	67.8	67.0	72.4
25–34 years . . . . .	---	---	---	*	*	*	*	*
35–44 years . . . . .	---	---	---	*	22.8	14.3	21.4	22.9
45–54 years . . . . .	---	---	---	86.9	86.9	79.2	70.3	77.1
55–64 years . . . . .	---	---	---	213.4	246.2	279.8	255.6	256.0
65–74 years . . . . .	---	---	---	613.0	530.6	684.7	648.0	673.9
75–84 years . . . . .	---	---	---	936.4	1,038.4	1,346.3	1,152.5	1,093.0
85 years and over . . . . .	---	---	---	1,471.2	1,654.4	1,549.0	1,584.2	1,487.5
<b>Asian or Pacific Islander male<sup>4</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	165.2	172.5	164.3	150.8	147.0
All ages, crude . . . . .	---	---	---	81.9	82.7	83.7	85.2	87.0
25–34 years . . . . .	---	---	---	6.3	9.2	8.2	7.4	7.1
35–44 years . . . . .	---	---	---	29.4	27.7	26.1	26.1	24.8
45–54 years . . . . .	---	---	---	108.2	92.6	82.4	78.5	83.9
55–64 years . . . . .	---	---	---	298.5	274.6	244.8	229.2	234.8
65–74 years . . . . .	---	---	---	581.2	687.2	614.3	559.4	515.1
75–84 years . . . . .	---	---	---	1,147.6	1,229.9	1,167.2	1,086.1	1,095.9
85 years and over . . . . .	---	---	---	1,798.7	1,837.0	2,081.3	1,823.2	1,676.4
<b>Hispanic or Latino male<sup>4,6</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	174.7	180.9	171.7	168.2
All ages, crude . . . . .	---	---	---	---	65.5	65.4	61.3	62.2
25–34 years . . . . .	---	---	---	---	8.0	8.4	6.9	6.3
35–44 years . . . . .	---	---	---	---	22.5	24.7	20.1	21.7
45–54 years . . . . .	---	---	---	---	96.6	85.0	79.4	81.5
55–64 years . . . . .	---	---	---	---	294.0	281.6	253.1	253.5
65–74 years . . . . .	---	---	---	---	655.5	697.9	651.2	642.8
75–84 years . . . . .	---	---	---	---	1,233.4	1,359.8	1,306.4	1,258.3
85 years and over . . . . .	---	---	---	---	2,019.4	2,018.6	2,049.7	1,967.4
<b>White, not Hispanic or Latino male<sup>6</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	276.7	263.5	247.7	243.1
All ages, crude . . . . .	---	---	---	---	246.2	246.0	244.4	243.4
25–34 years . . . . .	---	---	---	---	12.8	11.2	9.7	10.0
35–44 years . . . . .	---	---	---	---	36.8	34.8	32.3	32.6
45–54 years . . . . .	---	---	---	---	153.9	135.6	127.2	127.3
55–64 years . . . . .	---	---	---	---	520.6	464.9	412.0	401.7
65–74 years . . . . .	---	---	---	---	1,109.0	1,069.9	1,002.1	988.2
75–84 years . . . . .	---	---	---	---	1,906.6	1,825.4	1,750.2	1,721.8
85 years and over . . . . .	---	---	---	---	2,744.4	2,810.8	2,714.1	2,616.8
<b>White female<sup>4</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	182.0	167.7	162.5	165.2	174.0	172.1	166.9	163.9
All ages, crude . . . . .	139.9	139.8	149.4	170.3	196.1	200.6	199.4	196.7
25–34 years . . . . .	20.9	18.8	16.3	13.5	11.9	11.2	10.1	10.4
35–44 years . . . . .	74.5	66.6	62.4	50.9	46.2	41.9	38.2	39.3
45–54 years . . . . .	185.8	175.7	177.3	166.4	150.9	135.0	120.1	118.9
55–64 years . . . . .	362.5	329.0	338.6	355.5	368.5	350.3	319.7	308.6
65–74 years . . . . .	616.5	562.1	554.7	605.2	675.1	685.6	665.6	652.9
75–84 years . . . . .	1,026.6	939.3	903.5	905.4	1,011.8	1,047.9	1,063.4	1,049.8
85 years and over . . . . .	1,348.3	1,304.9	1,126.6	1,266.8	1,372.3	1,405.4	1,459.1	1,416.7

See footnotes at end of table.

**Table 38 (page 3 of 4). Death rates for malignant neoplasms, according to sex, race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1950<sup>1</sup></i>	<i>1960<sup>1</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>2000<sup>2</sup></i>	<i>2001</i>
Deaths per 100,000 resident population								
<b>Black or African American female<sup>4</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	174.1	174.3	173.4	189.5	205.9	203.8	193.8	191.3
All ages, crude . . . . .	111.8	113.8	117.3	136.5	156.1	155.8	151.8	151.3
25–34 years . . . . .	34.3	31.0	20.9	18.3	18.7	16.5	13.5	15.0
35–44 years . . . . .	119.8	102.4	94.6	73.5	67.4	61.7	58.9	57.3
45–54 years . . . . .	277.0	254.8	228.6	230.2	209.9	190.6	173.9	166.8
55–64 years . . . . .	484.6	442.7	404.8	450.4	482.4	444.9	391.0	390.9
65–74 years . . . . .	477.3	541.6	615.8	662.4	773.2	803.5	753.1	748.4
75–84 years <sup>5</sup> . . . . .	605.3	696.3	763.3	923.9	1,059.9	1,120.8	1,124.0	1,125.0
85 years and over . . . . .	---	728.9	791.5	1,159.9	1,431.3	1,446.2	1,527.7	1,457.5
<b>American Indian or Alaska Native female<sup>4</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	94.0	106.9	117.7	108.3	114.1
All ages, crude . . . . .	---	---	---	50.4	62.1	64.5	61.3	68.8
25–34 years . . . . .	---	---	---	*	*	10.2	*	*
35–44 years . . . . .	---	---	---	36.9	31.0	29.7	23.7	25.7
45–54 years . . . . .	---	---	---	96.9	104.5	76.9	59.7	79.4
55–64 years . . . . .	---	---	---	198.4	213.3	213.2	200.9	221.7
65–74 years . . . . .	---	---	---	350.8	438.9	437.0	458.3	463.8
75–84 years . . . . .	---	---	---	446.4	554.3	819.9	714.0	752.7
85 years and over . . . . .	---	---	---	786.5	843.7	1,039.4	983.2	905.2
<b>Asian or Pacific Islander female<sup>4</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	93.0	103.0	107.4	100.7	99.3
All ages, crude . . . . .	---	---	---	54.1	60.5	69.5	72.1	74.0
25–34 years . . . . .	---	---	---	9.5	7.3	9.9	8.1	8.0
35–44 years . . . . .	---	---	---	38.7	29.8	27.6	28.9	25.6
45–54 years . . . . .	---	---	---	99.8	93.9	94.4	78.2	82.5
55–64 years . . . . .	---	---	---	174.7	196.2	203.5	176.5	167.7
65–74 years . . . . .	---	---	---	301.9	346.2	343.3	357.4	373.3
75–84 years . . . . .	---	---	---	522.1	641.4	681.0	650.1	633.1
85 years and over . . . . .	---	---	---	800.0	971.7	1,092.7	988.5	929.2
<b>Hispanic or Latino female<sup>4,6</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	111.9	110.8	110.8	108.6
All ages, crude . . . . .	---	---	---	---	60.7	58.7	58.5	58.7
25–34 years . . . . .	---	---	---	---	9.7	8.5	7.8	8.3
35–44 years . . . . .	---	---	---	---	34.8	30.7	30.7	29.8
45–54 years . . . . .	---	---	---	---	100.5	89.7	84.7	84.2
55–64 years . . . . .	---	---	---	---	205.4	203.0	192.5	196.7
65–74 years . . . . .	---	---	---	---	404.8	398.0	410.0	394.5
75–84 years . . . . .	---	---	---	---	663.0	706.2	716.5	681.2
85 years and over . . . . .	---	---	---	---	1,022.7	1,028.6	1,056.5	1,068.6

See footnotes at end of table.

**Table 38 (page 4 of 4). Death rates for malignant neoplasms, according to sex, race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

Sex, race, Hispanic origin, and age	1950 <sup>1</sup>	1960 <sup>1</sup>	1970	1980	1990	1995	2000 <sup>2</sup>	2001
White, not Hispanic or Latino female <sup>6</sup>								
	Deaths per 100,000 resident population							
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	177.5	174.7	170.0	167.2
All ages, crude . . . . .	---	---	---	---	210.6	217.3	220.6	218.4
25–34 years . . . . .	---	---	---	---	11.9	11.5	10.5	10.7
35–44 years . . . . .	---	---	---	---	47.0	42.7	38.9	40.4
45–54 years . . . . .	---	---	---	---	154.9	137.8	123.0	121.9
55–64 years . . . . .	---	---	---	---	379.5	359.3	328.9	317.3
65–74 years . . . . .	---	---	---	---	688.5	697.9	681.0	669.7
75–84 years . . . . .	---	---	---	---	1,027.2	1,056.1	1,075.3	1,064.4
85 years and over . . . . .	---	---	---	---	1,385.7	1,411.6	1,468.7	1,425.1

--- Data not available.

\* Rates based on fewer than 20 deaths are considered unreliable and are not shown.

<sup>1</sup>Includes deaths of persons who were not residents of the 50 States and the District of Columbia.

<sup>2</sup>Starting with 1999 data, cause of death is coded according to ICD–10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

<sup>3</sup>Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment.

<sup>4</sup>The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Persons of Hispanic origin may be of any race. Death rates for the American Indian or Alaska Native and Asian or Pacific Islander populations are known to be underestimated. See Appendix II, Race, for a discussion of sources of bias in death rates by race and Hispanic origin.

<sup>5</sup>In 1950 rate is for the age group 75 years and over.

<sup>6</sup>Prior to 1997, excludes data from States lacking an Hispanic-origin item on the death certificate. See Appendix II, Hispanic origin.

NOTES: Population estimates used to compute rates for 1991–2000 differ from those used previously. Starting with *Health, United States, 2003*, rates for 1991–99 were revised using intercensal population estimates based on Census 2000. Rates for 2000 were revised based on Census 2000 counts. Rates for 2001 were computed using 2000-based postcensal estimates. See Appendix I, Population Census and Population Estimates. Underlying cause of death code numbers are based on the applicable revision of the *International Classification of Diseases (ICD)* for data years shown. See Appendix II, tables IV and V. Age groups were selected to minimize the presentation of unstable age-specific death rates based on small numbers of deaths and for consistency among comparison groups. Data for additional years are available. See Appendix III.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System; Grove RD, Hetzel AM. Vital statistics rates in the United States, 1940–1960. Washington: U.S. Government Printing Office. 1968; numerator data from National Vital Statistics System, annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates for 1985–96 prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census; additional mortality tables are available at [www.cdc.gov/nchs/dataawh/statab/unpubd/mortabs.htm](http://www.cdc.gov/nchs/dataawh/statab/unpubd/mortabs.htm); Arias E, Anderson RN, Kung HC, Murphy SL, Kochanek KD. Deaths: Final data for 2001. National vital statistics reports. Vol 52 no 3. Hyattsville, Maryland: National Center for Health Statistics. 2003.

**Table 39 (page 1 of 3). Death rates for malignant neoplasms of trachea, bronchus, and lung, according to sex, race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1950<sup>1</sup></i>	<i>1960<sup>1</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>2000<sup>2</sup></i>	<i>2001</i>
Deaths per 100,000 resident population								
All persons								
All ages, age adjusted <sup>3</sup> . . . . .	15.0	24.1	37.1	49.9	59.3	58.4	56.1	55.3
All ages, crude . . . . .	12.2	20.3	32.1	45.8	56.8	56.8	55.3	54.8
Under 25 years . . . . .	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
25–34 years . . . . .	0.8	1.0	0.9	0.6	0.7	0.6	0.5	0.4
35–44 years . . . . .	4.5	6.8	11.0	9.2	6.8	6.0	6.1	6.2
45–54 years . . . . .	20.4	29.6	43.4	54.1	46.8	37.5	31.6	30.7
55–64 years . . . . .	48.7	75.3	109.1	138.2	160.6	141.6	122.4	117.7
65–74 years . . . . .	59.7	108.1	164.5	233.3	288.4	295.4	284.2	279.7
75–84 years . . . . .	55.8	91.5	163.2	240.5	333.3	358.9	370.8	371.4
85 years and over . . . . .	42.3	65.6	101.7	176.0	242.5	279.9	302.1	302.7
Male								
All ages, age adjusted <sup>3</sup> . . . . .	24.6	43.6	67.5	85.2	91.1	84.2	76.7	75.2
All ages, crude . . . . .	19.9	35.4	53.4	68.6	75.1	70.5	65.5	64.7
Under 25 years . . . . .	0.0	0.0	0.1	0.1	0.0	0.1	*	*
25–34 years . . . . .	1.1	1.4	1.3	0.8	0.9	0.7	0.5	0.4
35–44 years . . . . .	7.1	10.5	16.1	11.9	8.5	7.0	6.9	6.7
45–54 years . . . . .	35.0	50.6	67.5	76.0	59.7	46.3	38.5	37.4
55–64 years . . . . .	83.8	139.3	189.7	213.6	222.9	185.3	154.0	147.1
65–74 years . . . . .	98.7	204.3	320.8	403.9	430.4	414.3	377.9	370.0
75–84 years . . . . .	82.6	167.1	330.8	488.8	572.9	553.8	532.2	529.5
85 years and over . . . . .	62.5	107.7	194.0	368.1	513.2	540.3	521.2	512.4
Female								
All ages, age adjusted <sup>3</sup> . . . . .	5.8	7.5	13.1	24.4	37.1	40.4	41.3	41.0
All ages, crude . . . . .	4.5	6.4	11.9	24.3	39.4	43.6	45.4	45.3
Under 25 years . . . . .	0.1	0.0	0.0	*	*	*	*	*
25–34 years . . . . .	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.4
35–44 years . . . . .	1.9	3.2	6.1	6.5	5.2	5.0	5.3	5.7
45–54 years . . . . .	5.8	9.2	21.0	33.7	34.5	29.1	25.0	24.3
55–64 years . . . . .	13.6	15.4	36.8	72.0	105.0	101.9	93.3	90.5
65–74 years . . . . .	23.3	24.4	43.1	102.7	177.6	200.0	206.9	204.9
75–84 years . . . . .	32.9	32.8	52.4	94.1	190.1	237.2	265.6	267.5
85 years and over . . . . .	28.2	38.8	50.0	91.9	138.1	179.6	212.8	215.0
White male <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	25.1	43.6	67.1	83.8	89.0	82.6	75.7	74.2
All ages, crude . . . . .	20.8	36.4	54.6	70.2	77.8	74.0	69.4	68.6
45–54 years . . . . .	35.1	49.2	63.3	70.9	55.2	43.2	35.7	34.9
55–64 years . . . . .	85.4	139.2	186.8	205.6	213.7	178.9	150.8	143.8
65–74 years . . . . .	101.5	207.5	325.0	401.0	422.1	408.0	374.9	368.1
75–84 years . . . . .	85.5	170.4	336.7	493.5	572.2	550.8	529.9	526.4
85 years and over . . . . .	67.4	109.4	199.6	374.1	516.3	539.3	522.4	513.9
Black or African American male <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	17.8	42.6	75.4	107.6	125.4	115.1	101.1	99.1
All ages, crude . . . . .	12.1	28.1	47.7	66.6	73.7	65.6	58.3	57.2
45–54 years . . . . .	34.4	68.4	115.4	133.8	114.9	85.2	70.7	66.2
55–64 years . . . . .	68.3	146.8	234.3	321.1	358.6	288.5	223.5	215.2
65–74 years . . . . .	53.8	168.3	300.5	472.3	585.4	559.5	488.8	476.4
75–84 years <sup>5</sup> . . . . .	36.2	107.3	271.6	472.9	645.4	667.1	642.5	659.8
85 years and over . . . . .	---	82.8	137.0	311.3	499.5	583.0	562.8	549.2
American Indian or Alaska Native male <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	31.7	47.5	53.6	42.9	42.1
All ages, crude . . . . .	---	---	---	14.2	20.0	21.8	18.1	19.6
45–54 years . . . . .	---	---	---	*	26.6	23.8	14.5	20.0
55–64 years . . . . .	---	---	---	72.0	97.8	98.9	86.0	78.7
65–74 years . . . . .	---	---	---	202.8	194.3	261.5	184.8	205.4
75–84 years . . . . .	---	---	---	*	356.2	409.7	367.9	354.6
85 years and over . . . . .	---	---	---	*	*	*	*	*

See footnotes at end of table.

**Table 39 (page 2 of 3). Death rates for malignant neoplasms of trachea, bronchus, and lung, according to sex, race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1950<sup>1</sup></i>	<i>1960<sup>1</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>2000<sup>2</sup></i>	<i>2001</i>
Deaths per 100,000 resident population								
Asian or Pacific Islander male <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	43.3	44.2	41.0	40.9	39.2
All ages, crude . . . . .	---	---	---	22.1	20.7	20.7	22.7	22.5
45–54 years . . . . .	---	---	---	33.3	18.8	18.6	17.2	16.7
55–64 years . . . . .	---	---	---	94.4	74.4	64.4	61.4	62.4
65–74 years . . . . .	---	---	---	174.3	215.8	184.0	183.2	161.7
75–84 years . . . . .	---	---	---	301.3	307.5	296.6	323.2	311.5
85 years and over . . . . .	---	---	---	*	421.3	439.0	378.0	402.3
Hispanic or Latino male <sup>4,6</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	44.1	42.2	39.0	36.8
All ages, crude . . . . .	---	---	---	---	16.2	14.8	13.3	13.1
45–54 years . . . . .	---	---	---	---	21.5	17.5	14.8	14.2
55–64 years . . . . .	---	---	---	---	80.7	69.9	58.6	59.5
65–74 years . . . . .	---	---	---	---	195.5	192.0	167.3	163.7
75–84 years . . . . .	---	---	---	---	313.4	324.4	327.5	293.8
85 years and over . . . . .	---	---	---	---	420.7	382.8	368.8	335.2
White, not Hispanic or Latino male <sup>6</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	91.1	84.1	77.9	76.6
All ages, crude . . . . .	---	---	---	---	84.7	81.5	78.9	78.4
45–54 years . . . . .	---	---	---	---	57.8	44.9	37.7	37.0
55–64 years . . . . .	---	---	---	---	221.0	184.8	157.7	150.3
65–74 years . . . . .	---	---	---	---	431.4	416.0	387.3	381.1
75–84 years . . . . .	---	---	---	---	580.4	554.8	537.7	536.5
85 years and over . . . . .	---	---	---	---	520.9	542.7	527.3	520.0
White female <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	5.9	6.8	13.1	24.5	37.6	41.1	42.3	42.1
All ages, crude . . . . .	4.7	5.9	12.3	25.6	42.4	47.5	49.9	49.8
45–54 years . . . . .	5.7	9.0	20.9	33.0	34.6	29.3	24.8	24.3
55–64 years . . . . .	13.7	15.1	37.2	71.9	105.7	104.0	96.1	93.3
65–74 years . . . . .	23.7	24.8	42.9	104.6	181.3	203.8	213.2	211.9
75–84 years . . . . .	34.0	32.7	52.6	95.2	194.6	243.3	272.7	274.0
85 years and over . . . . .	29.3	39.1	50.6	92.4	138.3	181.0	215.9	218.1
Black or African American female <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	4.5	6.8	13.7	24.8	36.8	38.8	39.8	38.7
All ages, crude . . . . .	2.8	4.3	9.4	18.3	28.1	29.5	30.8	30.2
45–54 years . . . . .	7.5	11.3	23.9	43.4	41.3	34.5	32.9	29.5
55–64 years . . . . .	12.9	17.9	33.5	79.9	117.9	106.9	95.3	92.0
65–74 years . . . . .	14.0	18.1	46.1	88.0	164.3	196.2	194.1	186.7
75–84 years <sup>5</sup> . . . . .	*	31.3	49.1	79.4	148.1	183.2	224.3	231.3
85 years and over . . . . .	---	34.2	44.8	85.8	134.9	158.9	185.9	181.0
American Indian or Alaska Native female <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	11.7	19.3	25.9	24.8	28.1
All ages, crude . . . . .	---	---	---	6.0	11.2	13.8	14.0	16.2
45–54 years . . . . .	---	---	---	*	22.9	*	12.1	15.1
55–64 years . . . . .	---	---	---	*	53.7	45.7	52.6	56.9
65–74 years . . . . .	---	---	---	*	78.5	134.6	151.5	140.2
75–84 years . . . . .	---	---	---	*	111.8	209.5	136.3	201.4
85 years and over . . . . .	---	---	---	*	*	*	*	*

See footnotes at end of table.



**Table 39 (page 3 of 3). Death rates for malignant neoplasms of trachea, bronchus, and lung, according to sex, race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

Sex, race, Hispanic origin, and age	1950 <sup>1</sup>	1960 <sup>1</sup>	1970	1980	1990	1995	2000 <sup>2</sup>	2001
Asian or Pacific Islander female <sup>4</sup>				Deaths per 100,000 resident population				
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	15.4	18.9	21.4	18.4	20.0
All ages, crude . . . . .	---	---	---	8.4	10.5	13.0	12.6	14.1
45–54 years . . . . .	---	---	---	13.5	11.3	11.6	9.9	11.4
55–64 years . . . . .	---	---	---	24.6	38.3	37.6	30.4	29.4
65–74 years . . . . .	---	---	---	62.4	71.6	84.2	77.0	83.6
75–84 years . . . . .	---	---	---	117.7	137.9	153.5	135.0	147.5
85 years and over . . . . .	---	---	---	*	172.9	235.5	175.3	212.1
Hispanic or Latino female <sup>4,6</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	14.1	14.3	14.7	14.5
All ages, crude . . . . .	---	---	---	---	7.2	7.1	7.2	7.4
45–54 years . . . . .	---	---	---	---	8.7	7.1	7.1	7.3
55–64 years . . . . .	---	---	---	---	25.1	25.5	22.2	24.6
65–74 years . . . . .	---	---	---	---	66.8	59.2	66.0	64.6
75–84 years . . . . .	---	---	---	---	94.3	111.0	112.3	107.0
85 years and over . . . . .	---	---	---	---	118.2	128.3	137.5	135.0
White, not Hispanic or Latino female <sup>6</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	39.0	42.5	44.1	44.0
All ages, crude . . . . .	---	---	---	---	46.2	52.3	56.4	56.6
45–54 years . . . . .	---	---	---	---	36.6	31.0	26.4	26.0
55–64 years . . . . .	---	---	---	---	111.3	109.4	102.2	99.2
65–74 years . . . . .	---	---	---	---	186.4	210.4	222.9	222.3
75–84 years . . . . .	---	---	---	---	199.1	247.2	279.2	281.3
85 years and over . . . . .	---	---	---	---	139.0	181.6	218.0	220.6

0.0 Quantity more than zero but less than 0.05.

\* Rates based on fewer than 20 deaths are considered unreliable and are not shown.

--- Data not available.

<sup>1</sup>Includes deaths of persons who were not residents of the 50 States and the District of Columbia.

<sup>2</sup>Starting with 1999 data, cause of death is coded according to ICD–10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

<sup>3</sup>Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment.

<sup>4</sup>The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Persons of Hispanic origin may be of any race. Death rates for the American Indian or Alaska Native and Asian or Pacific Islander populations are known to be underestimated. See Appendix II, Race, for a discussion of sources of bias in death rates by race and Hispanic origin.

<sup>5</sup>In 1950 rate is for the age group 75 years and over.

<sup>6</sup>Prior to 1997, excludes data from States lacking an Hispanic-origin item on the death certificate. See Appendix II, Hispanic origin.

NOTES: Population estimates used to compute rates for 1991–2000 differ from those used previously. Starting with *Health, United States, 2003*, rates for 1991–99 were revised using intercensal population estimates based on Census 2000. Rates for 2000 were revised based on Census 2000 counts. Rates for 2001 were computed using 2000-based postcensal estimates. See Appendix I, Population Census and Population Estimates. Underlying cause of death code numbers are based on the applicable revision of the *International Classification of Diseases (ICD)* for data years shown. For the period 1980–98, causes were coded using ICD–9 codes that are most nearly comparable with the 113 cause list for ICD–10. See Appendix II, tables IV and V. Age groups were selected to minimize the presentation of unstable age-specific death rates based on small numbers of deaths and for consistency among comparison groups. Data for additional years are available. See Appendix III.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System; Grove RD, Hetzel AM. Vital statistics rates in the United States, 1940–1960. Washington: U.S. Government Printing Office. 1968; numerator data from National Vital Statistics System, annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates for 1985–96 prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census; additional mortality tables are available at [www.cdc.gov/nchs/dataawh/statab/unpubd/mortabs.htm](http://www.cdc.gov/nchs/dataawh/statab/unpubd/mortabs.htm); Arias E, Anderson RN, Kung HC, Murphy SL, Kochanek KD. Deaths: Final data for 2001. National vital statistics reports. Vol 52 no 3. Hyattsville, Maryland: National Center for Health Statistics. 2003.

**Table 40 (page 1 of 2). Death rates for malignant neoplasm of breast for females, according to race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Race, Hispanic origin, and age</i>	<i>1950<sup>1</sup></i>	<i>1960<sup>1</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>2000<sup>2</sup></i>	<i>2001</i>
Deaths per 100,000 resident population								
<b>Female</b>								
All ages, age adjusted <sup>3</sup> . . . . .	31.9	31.7	32.1	31.9	33.3	30.5	26.8	26.0
All ages, crude . . . . .	24.7	26.1	28.4	30.6	34.0	32.2	29.2	28.6
Under 25 years . . . . .	*	*	*	*	*	*	*	*
25–34 years . . . . .	3.8	3.8	3.9	3.3	2.9	2.6	2.3	2.4
35–44 years . . . . .	20.8	20.2	20.4	17.9	17.8	14.9	12.4	12.4
45–54 years . . . . .	46.9	51.4	52.6	48.1	45.4	41.0	33.0	32.8
55–64 years . . . . .	69.9	70.8	77.6	80.5	78.6	69.4	59.3	57.5
65–74 years . . . . .	95.0	90.0	93.8	101.1	111.7	102.8	88.3	85.8
75–84 years . . . . .	139.8	129.9	127.4	126.4	146.3	140.1	128.9	125.8
85 years and over . . . . .	195.5	191.9	157.1	169.3	196.8	200.2	205.7	188.9
<b>White<sup>4</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	32.4	32.0	32.5	32.1	33.2	30.1	26.3	25.5
All ages, crude . . . . .	25.7	27.2	29.9	32.3	35.9	33.8	30.7	29.8
35–44 years . . . . .	20.8	19.7	20.2	17.3	17.1	14.0	11.3	11.3
45–54 years . . . . .	47.1	51.2	53.0	48.1	44.3	38.9	31.2	31.0
55–64 years . . . . .	70.9	71.8	79.3	81.3	78.5	68.3	57.9	56.0
65–74 years . . . . .	96.3	91.6	95.9	103.7	113.3	103.3	89.3	85.6
75–84 years . . . . .	143.6	132.8	129.6	128.4	148.2	141.4	130.2	126.9
85 years and over . . . . .	204.2	199.7	161.9	171.7	198.0	202.6	205.5	189.9
<b>Black or African American<sup>4</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	25.3	27.9	28.9	31.7	38.1	38.0	34.5	34.4
All ages, crude . . . . .	16.4	18.7	19.7	22.9	29.0	29.6	27.9	28.3
35–44 years . . . . .	21.0	24.8	24.4	24.1	25.8	22.9	20.9	20.8
45–54 years . . . . .	46.5	54.4	52.0	52.7	60.5	61.9	51.5	50.3
55–64 years . . . . .	64.3	63.2	64.7	79.9	93.1	89.1	80.9	79.8
65–74 years . . . . .	67.0	72.3	77.3	84.3	112.2	117.9	98.6	106.6
75–84 years <sup>5</sup> . . . . .	81.0	87.5	101.8	114.1	140.5	147.2	139.8	141.8
85 years and over . . . . .	---	92.1	112.1	149.9	201.5	192.7	238.7	205.9
<b>American Indian or Alaska Native<sup>4</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	10.8	13.7	15.0	13.6	11.8
All ages, crude . . . . .	---	---	---	6.1	8.6	9.0	8.7	8.2
35–44 years . . . . .	---	---	---	*	*	*	*	*
45–54 years . . . . .	---	---	---	*	23.9	21.6	14.4	18.9
55–64 years . . . . .	---	---	---	*	*	37.4	40.0	31.4
65–74 years . . . . .	---	---	---	*	*	46.3	42.5	41.5
75–84 years . . . . .	---	---	---	*	*	*	71.8	*
85 years and over . . . . .	---	---	---	*	*	*	*	*
<b>Asian or Pacific Islander<sup>4</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	11.9	13.7	13.9	12.3	12.9
All ages, crude . . . . .	---	---	---	8.2	9.3	10.8	10.2	10.9
35–44 years . . . . .	---	---	---	10.4	8.4	8.0	8.1	8.8
45–54 years . . . . .	---	---	---	23.4	26.4	29.1	22.3	22.3
55–64 years . . . . .	---	---	---	35.7	33.8	37.9	31.3	33.1
65–74 years . . . . .	---	---	---	*	38.5	36.6	34.7	36.5
75–84 years . . . . .	---	---	---	*	48.0	42.3	37.5	44.8
85 years and over . . . . .	---	---	---	*	*	*	68.2	65.8
<b>Hispanic or Latino<sup>4,6</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	19.5	18.7	16.9	16.3
All ages, crude . . . . .	---	---	---	---	11.5	10.6	9.7	9.7
35–44 years . . . . .	---	---	---	---	11.7	9.5	8.7	9.2
45–54 years . . . . .	---	---	---	---	32.8	27.7	23.9	23.8
55–64 years . . . . .	---	---	---	---	45.8	45.0	39.1	41.5
65–74 years . . . . .	---	---	---	---	64.8	58.0	54.9	49.3
75–84 years . . . . .	---	---	---	---	67.2	80.9	74.9	64.7
85 years and over . . . . .	---	---	---	---	102.8	115.6	105.8	102.4

See footnotes at end of table.

**Table 40 (page 2 of 2). Death rates for malignant neoplasm of breast for females, according to race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Race, Hispanic origin, and age</i>	<i>1950<sup>1</sup></i>	<i>1960<sup>1</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>2000<sup>2</sup></i>	<i>2001</i>
White, not Hispanic or Latino <sup>6</sup>	Deaths per 100,000 resident population							
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	33.9	30.6	26.8	26.0
All ages, crude . . . . .	---	---	---	---	38.5	36.6	33.8	32.9
35–44 years . . . . .	---	---	---	---	17.5	14.4	11.6	11.5
45–54 years . . . . .	---	---	---	---	45.2	39.5	31.7	31.6
55–64 years . . . . .	---	---	---	---	80.6	69.5	59.2	57.0
65–74 years . . . . .	---	---	---	---	115.7	105.4	91.4	88.0
75–84 years . . . . .	---	---	---	---	151.4	143.2	132.2	129.4
85 years and over . . . . .	---	---	---	---	201.5	204.4	208.3	192.6

\* Rates based on fewer than 20 deaths are considered unreliable and are not shown.

0.0 Quantity more than zero but less than 0.05.

--- Data not available.

<sup>1</sup>Includes deaths of persons who were not residents of the 50 States and the District of Columbia.

<sup>2</sup>Starting with 1999 data, cause of death is coded according to ICD–10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

<sup>3</sup>Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment.

<sup>4</sup>The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Persons of Hispanic origin may be of any race. Death rates for the American Indian or Alaska Native and Asian or Pacific Islander populations are known to be underestimated. See Appendix II, Race, for a discussion of sources of bias in death rates by race and Hispanic origin.

<sup>5</sup>In 1950 rate is for the age group 75 years and over.

<sup>6</sup>Prior to 1997, excludes data from States lacking an Hispanic-origin item on the death certificate. See Appendix II, Hispanic origin.

NOTES: Population estimates used to compute rates for 1991–2000 differ from those used previously. Starting with *Health, United States, 2003*, rates for 1991–99 were revised using intercensal population estimates based on Census 2000. Rates for 2000 were revised based on Census 2000 counts. Rates for 2001 were computed using 2000-based postcensal estimates. See Appendix I, Population Census and Population Estimates. Underlying cause of death code numbers are based on the applicable revision of the *International Classification of Diseases* (ICD) for data years shown. See Appendix II, tables IV and V. Age groups were selected to minimize the presentation of unstable age-specific death rates based on small numbers of deaths and for consistency among comparison groups. Data for additional years are available. See Appendix III.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System; numerator data from annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates for 1985–96 prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census; additional mortality tables are available at [www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm](http://www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm); Arias E, Anderson RN, Kung HC, Murphy SL, Kochanek KD. Deaths: Final data for 2001. National vital statistics reports. Vol 52 no 3. Hyattsville, Maryland: National Center for Health Statistics. 2003.

**Table 41 (page 1 of 3). Death rates for chronic lower respiratory diseases, according to sex, race, Hispanic origin, and age: United States, selected years 1980–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>1998</i>	<i>Comparability modified 1998<sup>1</sup></i>	<i>1999<sup>1</sup></i>	<i>2000</i>	<i>2001</i>
Deaths per 100,000 resident population								
All persons								
All ages, age adjusted <sup>2</sup> . . . . .	28.3	37.2	40.1	41.8	43.8	45.4	44.2	43.7
All ages, crude . . . . .	24.7	34.9	38.6	40.8	42.8	44.5	43.4	43.2
Under 1 year . . . . .	1.6	1.4	1.1	1.0	1.0	0.9	0.9	1.0
1–4 years . . . . .	0.4	0.4	0.2	0.3	0.3	0.4	0.3	0.3
5–14 years . . . . .	0.2	0.3	0.4	0.4	0.4	0.3	0.3	0.3
15–24 years . . . . .	0.3	0.5	0.7	0.6	0.6	0.5	0.5	0.4
25–34 years . . . . .	0.5	0.7	0.9	0.8	0.8	0.8	0.7	0.7
35–44 years . . . . .	1.6	1.6	1.9	2.0	2.1	2.0	2.1	2.2
45–54 years . . . . .	9.8	9.1	8.7	8.0	8.4	8.5	8.6	8.5
55–64 years . . . . .	42.7	48.9	46.8	44.1	46.2	47.5	44.2	44.1
65–74 years . . . . .	129.1	152.5	159.6	167.4	175.4	177.2	169.4	167.9
75–84 years . . . . .	224.4	321.1	349.3	363.7	381.1	397.8	386.1	379.8
85 years and over . . . . .	274.0	433.3	520.1	572.2	599.6	646.0	648.6	644.7
Male								
All ages, age adjusted <sup>2</sup> . . . . .	49.9	55.5	54.8	54.4	57.0	58.7	55.8	54.0
All ages, crude . . . . .	35.1	40.8	41.4	42.2	44.2	45.6	43.5	42.7
Under 1 year . . . . .	1.9	1.6	1.4	1.2	1.3	—	1.2	1.1
1–4 years . . . . .	0.5	0.5	0.2	0.4	0.4	0.4	0.4	0.4
5–14 years . . . . .	0.2	0.4	0.5	0.4	0.4	0.4	0.4	0.3
15–24 years . . . . .	0.4	0.5	0.7	0.8	0.8	0.6	0.6	0.5
25–34 years . . . . .	0.6	0.7	0.9	0.9	0.9	0.8	0.8	0.7
35–44 years . . . . .	1.7	1.7	1.7	1.9	2.0	1.8	1.9	2.0
45–54 years . . . . .	12.1	9.4	8.8	8.0	8.4	8.6	9.0	8.8
55–64 years . . . . .	59.9	58.6	52.3	48.6	50.9	52.3	47.8	46.9
65–74 years . . . . .	210.0	204.0	195.6	199.1	208.6	210.7	195.2	191.3
75–84 years . . . . .	437.4	500.0	483.8	476.4	499.2	513.2	488.5	475.1
85 years and over . . . . .	583.4	815.1	889.8	900.6	943.6	996.7	967.9	916.9
Female								
All ages, age adjusted <sup>2</sup> . . . . .	14.9	26.6	31.8	34.4	36.0	37.7	37.4	37.6
All ages, crude . . . . .	15.0	29.2	36.0	39.5	41.4	43.4	43.2	43.7
Under 1 year . . . . .	1.3	1.2	*	*	*	*	*	*
1–4 years . . . . .	*	*	*	*	*	0.3	0.3	*
5–14 years . . . . .	0.3	0.3	0.2	0.3	0.3	0.2	0.3	0.2
15–24 years . . . . .	0.3	0.5	0.6	0.5	0.5	0.5	0.4	0.4
25–34 years . . . . .	0.5	0.7	0.9	0.8	0.8	0.9	0.7	0.7
35–44 years . . . . .	1.5	1.5	2.2	2.0	2.1	2.1	2.2	2.3
45–54 years . . . . .	7.7	8.8	8.7	8.1	8.5	8.4	8.3	8.1
55–64 years . . . . .	27.6	40.3	41.9	40.1	42.0	43.1	41.0	41.5
65–74 years . . . . .	67.1	112.3	130.8	141.7	148.5	149.8	148.2	148.5
75–84 years . . . . .	98.7	214.2	265.3	291.1	305.0	322.9	319.2	317.3
85 years and over . . . . .	138.7	286.0	377.7	441.7	462.8	504.6	518.5	530.8
White male <sup>3</sup>								
All ages, age adjusted <sup>2</sup> . . . . .	51.6	56.6	55.9	55.7	58.4	60.0	57.2	55.5
All ages, crude . . . . .	37.9	44.3	45.5	46.7	48.9	50.6	48.3	47.6
35–44 years . . . . .	1.2	1.3	1.4	1.5	1.6	1.5	1.6	1.7
45–54 years . . . . .	11.4	8.6	8.1	7.4	7.8	8.1	8.4	8.6
55–64 years . . . . .	60.0	58.7	52.7	49.2	51.6	53.1	48.6	48.0
65–74 years . . . . .	218.4	208.1	200.0	205.7	215.5	217.3	201.4	198.3
75–84 years . . . . .	459.8	513.5	497.9	489.8	513.2	525.4	503.6	489.4
85 years and over . . . . .	611.2	847.0	918.3	930.5	975.0	1,029.4	997.4	943.6
Black or African American male <sup>3</sup>								
All ages, age adjusted <sup>2</sup> . . . . .	34.0	47.6	47.4	46.4	48.6	51.5	47.5	46.3
All ages, crude . . . . .	19.3	25.2	24.4	23.9	25.0	26.2	24.3	23.6
35–44 years . . . . .	5.8	5.3	4.3	4.9	5.1	4.7	4.8	4.7
45–54 years . . . . .	19.7	18.8	16.9	14.5	15.2	15.3	15.0	13.3
55–64 years . . . . .	66.6	67.4	60.5	54.4	57.0	59.3	54.6	49.8
65–74 years . . . . .	142.0	184.5	178.7	170.1	178.2	184.6	176.9	168.0
75–84 years . . . . .	229.8	390.9	370.0	381.8	400.1	434.4	370.3	380.8
85 years and over . . . . .	271.6	498.0	624.1	613.5	642.8	701.9	693.1	671.7

See footnotes at end of table.

**Table 41 (page 2 of 3). Death rates for chronic lower respiratory diseases, according to sex, race, Hispanic origin, and age: United States, selected years 1980–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>1998</i>	<i>Comparability modified 1998<sup>1</sup></i>	<i>1999<sup>1</sup></i>	<i>2000</i>	<i>2001</i>
Deaths per 100,000 resident population								
<b>American Indian or Alaska Native male<sup>3</sup></b>								
All ages, age adjusted <sup>2</sup> . . . . .	23.0	38.3	35.6	45.7	47.9	41.8	43.7	35.0
All ages, crude . . . . .	8.4	13.8	12.3	15.3	16.0	14.0	15.3	13.1
35–44 years . . . . .	*	*	*	*	*	*	*	*
45–54 years . . . . .	*	*	*	*	*	*	*	*
55–64 years . . . . .	*	*	36.5	41.4	43.4	34.2	46.4	35.7
65–74 years . . . . .	*	135.7	132.1	140.0	146.7	165.0	111.3	115.1
75–84 years . . . . .	*	363.8	307.3	413.5	433.3	393.0	416.6	306.0
85 years and over . . . . .	*	*	*	789.3	827.0	576.7	770.7	614.8
<b>Asian or Pacific Islander male<sup>3</sup></b>								
All ages, age adjusted <sup>2</sup> . . . . .	21.5	29.8	28.9	26.0	27.2	29.6	28.3	27.0
All ages, crude . . . . .	8.7	11.3	11.8	11.4	11.9	13.1	12.6	12.7
35–44 years . . . . .	*	*	*	*	*	*	*	*
45–54 years . . . . .	*	*	*	*	*	*	4.8	3.6
55–64 years . . . . .	*	22.1	15.7	16.3	17.1	14.3	8.8	14.4
65–74 years . . . . .	70.6	91.4	87.9	71.0	74.4	81.9	71.3	65.5
75–84 years . . . . .	155.7	258.6	240.6	213.1	223.3	270.6	254.3	239.3
85 years and over . . . . .	472.4	615.2	650.4	617.1	646.6	652.3	670.7	640.4
<b>Hispanic or Latino male<sup>3,4</sup></b>								
All ages, age adjusted <sup>2</sup> . . . . .	---	28.6	31.8	31.1	32.6	33.0	28.8	27.6
All ages, crude . . . . .	---	8.4	8.9	8.5	8.9	8.9	8.0	7.8
35–44 years . . . . .	---	*	1.1	1.2	1.3	1.4	0.9	0.7
45–54 years . . . . .	---	4.1	3.9	3.7	3.9	3.6	3.4	3.2
55–64 years . . . . .	---	17.2	19.1	17.9	18.8	17.6	18.2	16.1
65–74 years . . . . .	---	81.0	82.4	77.7	81.4	81.9	72.4	75.5
75–84 years . . . . .	---	252.4	292.0	272.2	285.2	272.7	250.3	224.0
85 years and over . . . . .	---	613.9	689.0	725.9	760.6	836.8	671.1	676.1
<b>White, not Hispanic or Latino male<sup>4</sup></b>								
All ages, age adjusted <sup>2</sup> . . . . .	---	57.9	56.6	56.8	59.5	61.3	58.5	56.9
All ages, crude . . . . .	---	48.5	50.2	52.6	55.1	57.3	55.1	54.6
35–44 years . . . . .	---	1.4	1.4	1.5	1.6	1.5	1.7	1.9
45–54 years . . . . .	---	9.0	8.4	7.7	8.1	8.5	8.9	9.1
55–64 years . . . . .	---	61.3	54.6	51.4	53.9	55.6	50.8	50.5
65–74 years . . . . .	---	213.4	204.3	212.4	222.6	224.9	208.8	206.1
75–84 years . . . . .	---	523.7	501.7	497.4	521.2	534.9	513.6	500.9
85 years and over . . . . .	---	860.6	922.6	935.4	980.1	1,033.5	1,008.6	951.5
<b>White female<sup>3</sup></b>								
All ages, age adjusted <sup>2</sup> . . . . .	15.5	27.8	33.3	36.1	37.8	39.7	39.5	39.8
All ages, crude . . . . .	16.4	32.8	40.8	45.1	47.3	49.8	49.7	50.3
35–44 years . . . . .	1.3	1.2	1.7	1.6	1.7	1.8	1.8	1.9
45–54 years . . . . .	7.6	8.3	8.4	7.6	8.0	8.1	7.9	8.0
55–64 years . . . . .	28.7	41.9	44.0	42.3	44.3	45.6	43.2	44.1
65–74 years . . . . .	71.0	118.8	139.0	151.4	158.6	160.3	159.6	160.4
75–84 years . . . . .	104.0	226.3	279.5	308.3	323.0	341.5	339.1	338.3
85 years and over . . . . .	144.2	298.4	395.5	462.7	484.8	529.7	544.8	557.9
<b>Black or African American female<sup>3</sup></b>								
All ages, age adjusted <sup>2</sup> . . . . .	9.1	16.6	20.2	21.9	22.9	23.4	22.7	22.4
All ages, crude . . . . .	6.8	12.6	15.5	16.9	17.7	18.0	17.6	17.5
35–44 years . . . . .	3.4	3.8	5.4	5.2	5.4	4.6	4.7	4.9
45–54 years . . . . .	9.3	14.0	12.8	14.0	14.7	12.6	13.4	11.7
55–64 years . . . . .	20.8	33.4	34.7	34.0	35.6	34.9	35.3	33.3
65–74 years . . . . .	32.7	64.7	78.7	85.5	89.6	88.9	82.9	84.3
75–84 years . . . . .	41.1	96.0	132.7	143.4	150.3	166.4	158.4	151.7
85 years and over . . . . .	63.2	133.0	185.8	225.6	236.4	254.5	255.0	266.1

See footnotes at end of table.

**Table 41 (page 3 of 3). Death rates for chronic lower respiratory diseases, according to sex, race, Hispanic origin, and age: United States, selected years 1980–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>1998</i>	<i>Comparability modified 1998<sup>1</sup></i>	<i>1999<sup>1</sup></i>	<i>2000</i>	<i>2001</i>
Deaths per 100,000 resident population								
<b>American Indian or Alaska Native female<sup>3</sup></b>								
All ages, age adjusted <sup>2</sup> . . . . .	7.7	16.8	22.8	24.0	25.1	30.4	26.2	27.3
All ages, crude . . . . .	3.8	8.7	11.5	11.8	12.4	14.7	13.4	14.8
35–44 years . . . . .	*	*	*	*	*	*	*	*
45–54 years . . . . .	*	*	*	*	*	*	*	*
55–64 years . . . . .	*	*	38.8	28.6	30.0	39.6	31.6	37.3
65–74 years . . . . .	*	56.4	79.5	118.6	124.3	109.1	136.8	114.2
75–84 years . . . . .	*	116.7	191.3	192.9	202.1	301.1	175.8	217.9
85 years and over . . . . .	*	*	*	259.1	271.5	322.8	362.2	345.3
<b>Asian or Pacific Islander female<sup>3</sup></b>								
All ages, age adjusted <sup>2</sup> . . . . .	5.8	11.0	12.1	11.3	11.8	12.1	11.7	11.1
All ages, crude . . . . .	2.6	5.2	6.3	6.2	6.5	7.0	6.8	6.8
35–44 years . . . . .	*	*	*	*	*	*	*	*
45–54 years . . . . .	*	*	3.6	*	*	*	*	*
55–64 years . . . . .	*	15.2	9.6	6.4	6.7	7.7	6.2	7.0
65–74 years . . . . .	*	26.5	29.2	28.0	29.3	39.9	29.2	30.2
75–84 years . . . . .	*	80.6	113.2	91.6	96.0	94.1	88.9	79.4
85 years and over . . . . .	*	232.5	227.8	273.0	286.0	268.0	299.5	288.5
<b>Hispanic or Latino female<sup>3,4</sup></b>								
All ages, age adjusted <sup>2</sup> . . . . .	---	13.4	16.9	15.6	16.3	17.7	16.3	16.5
All ages, crude . . . . .	---	6.3	7.7	7.0	7.3	8.0	7.2	7.5
35–44 years . . . . .	---	*	1.4	1.8	1.9	1.8	1.3	1.2
45–54 years . . . . .	---	4.9	4.6	3.2	3.4	4.2	3.3	4.1
55–64 years . . . . .	---	14.4	12.9	12.0	12.6	12.0	10.8	12.1
65–74 years . . . . .	---	36.6	43.1	40.6	42.5	47.5	38.0	40.3
75–84 years . . . . .	---	101.1	125.0	131.1	137.4	142.9	136.0	132.7
85 years and over . . . . .	---	269.0	402.6	334.0	350.0	391.0	387.8	384.4
<b>White, not Hispanic or Latino female<sup>4</sup></b>								
All ages, age adjusted <sup>2</sup> . . . . .	---	28.5	34.0	37.1	38.9	40.8	40.7	41.1
All ages, crude . . . . .	---	35.7	44.7	50.4	52.8	55.9	56.2	57.2
35–44 years . . . . .	---	1.2	1.7	1.6	1.7	1.8	1.9	2.0
45–54 years . . . . .	---	8.5	8.5	7.9	8.3	8.5	8.3	8.3
55–64 years . . . . .	---	43.7	46.2	44.6	46.7	48.3	45.8	46.8
65–74 years . . . . .	---	122.8	143.0	157.9	165.4	167.4	167.6	168.8
75–84 years . . . . .	---	231.9	284.5	314.6	329.6	348.8	347.2	347.3
85 years and over . . . . .	---	302.1	393.7	465.3	487.5	532.8	548.7	562.7

\* Rates based on fewer than 20 deaths are considered unreliable and are not shown.

--- Data not available.

<sup>1</sup>Starting with 1999 data, cause of death is coded according to ICD–10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

<sup>2</sup>Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment.

<sup>3</sup>The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Persons of Hispanic origin may be of any race. Death rates for the American Indian or Alaska Native and Asian or Pacific Islander populations are known to be underestimated. See Appendix II, Race, for a discussion of sources of bias in death rates by race and Hispanic origin.

<sup>4</sup>Prior to 1997, excludes data from States lacking an Hispanic-origin item on the death certificate. See Appendix II, Hispanic origin.

NOTES: Population estimates used to compute rates for 1991–2000 differ from those used previously. Starting with *Health, United States, 2003*, rates for 1991–99 were revised using intercensal population estimates based on Census 2000. Rates for 2000 were revised based on Census 2000 counts. Rates for 2001 were computed using 2000-based postcensal estimates. See Appendix I, Population Census and Population Estimates. Underlying cause of death code numbers are based on the applicable revision of the *International Classification of Diseases (ICD)* for data years shown. For the period 1980–98, causes were coded using ICD–9 codes that are most nearly comparable with the 113 cause list for ICD–10. See Appendix II, tables IV and V. Age groups were selected to minimize the presentation of unstable age-specific death rates based on small numbers of deaths and for consistency among comparison groups. Data for additional years are available. See Appendix III.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System; numerator data from annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates for 1985–96 prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census; additional mortality tables are available at [www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm](http://www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm); Arias E, Anderson RN, Kung HC, Murphy SL, Kochanek KD. Deaths: Final data for 2001. National vital statistics reports. Vol 52 no 3. Hyattsville, Maryland: National Center for Health Statistics. 2003.



**Table 42 (page 1 of 2). Death rates for human immunodeficiency virus (HIV) disease, according to sex, race, Hispanic origin, and age: United States, selected years 1987–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1987</i>	<i>1990</i>	<i>1995</i>	<i>1998</i>	<i>Comparability modified 1998<sup>1</sup></i>	<i>1999<sup>1</sup></i>	<i>2000</i>	<i>2001</i>
All persons					Deaths per 100,000 resident population			
All ages, age adjusted <sup>2</sup> . . . . .	5.6	10.2	16.2	4.9	5.6	5.3	5.2	5.0
All ages, crude . . . . .	5.6	10.1	16.2	4.9	5.6	5.3	5.1	5.0
Under 1 year . . . . .	2.3	2.7	1.5	*	*	*	*	*
1–4 years . . . . .	0.7	0.8	1.3	0.2	0.2	0.2	*	*
5–14 years . . . . .	0.1	0.2	0.5	0.1	0.1	0.2	0.1	0.1
15–24 years . . . . .	1.3	1.5	1.7	0.5	0.6	0.5	0.5	0.6
25–34 years . . . . .	11.7	19.7	28.3	7.1	8.1	6.8	6.1	5.3
35–44 years . . . . .	14.0	27.4	44.2	12.8	14.7	13.8	13.1	13.0
45–54 years . . . . .	8.0	15.2	26.0	8.9	10.2	10.7	11.0	10.5
55–64 years . . . . .	3.5	6.2	10.9	4.3	4.9	4.8	5.1	5.2
65–74 years . . . . .	1.3	2.0	3.6	1.6	1.8	2.2	2.2	2.1
75–84 years . . . . .	0.8	0.7	0.7	0.5	0.6	0.6	0.7	0.7
85 years and over . . . . .	*	*	*	*	*	*	*	*
Male								
All ages, age adjusted <sup>2</sup> . . . . .	10.4	18.5	27.3	7.6	8.7	8.2	7.9	7.5
All ages, crude . . . . .	10.2	18.5	27.6	7.6	8.7	8.2	7.9	7.6
Under 1 year . . . . .	2.2	2.4	1.7	*	*	*	*	*
1–4 years . . . . .	0.7	0.8	1.2	*	*	*	*	*
5–14 years . . . . .	0.2	0.3	0.5	0.1	0.1	0.2	0.1	0.1
15–24 years . . . . .	2.2	2.2	2.0	0.5	0.6	0.5	0.5	0.5
25–34 years . . . . .	20.7	34.5	45.5	10.0	11.4	9.5	8.0	7.1
35–44 years . . . . .	26.3	50.2	75.5	20.0	22.9	21.0	19.8	19.5
45–54 years . . . . .	15.5	29.1	46.2	14.8	16.9	17.5	17.8	16.8
55–64 years . . . . .	6.8	12.0	19.7	7.2	8.2	8.3	8.7	8.6
65–74 years . . . . .	2.4	3.7	6.4	2.9	3.3	3.8	3.8	3.5
75–84 years . . . . .	1.2	1.1	1.3	0.9	1.0	1.0	1.3	1.5
85 years and over . . . . .	*	*	*	*	*	*	*	*
Female								
All ages, age adjusted <sup>2</sup> . . . . .	1.1	2.2	5.3	2.2	2.5	2.5	2.5	2.5
All ages, crude . . . . .	1.1	2.2	5.3	2.2	2.5	2.5	2.5	2.5
Under 1 year . . . . .	2.5	3.0	1.2	*	*	*	*	*
1–4 years . . . . .	0.7	0.8	1.5	*	*	*	*	*
5–14 years . . . . .	*	0.2	0.5	0.2	0.2	0.2	0.1	*
15–24 years . . . . .	0.3	0.7	1.4	0.5	0.6	0.5	0.4	0.6
25–34 years . . . . .	2.8	4.9	10.9	4.2	4.8	4.1	4.2	3.5
35–44 years . . . . .	2.1	5.2	13.3	5.7	6.5	6.7	6.5	6.7
45–54 years . . . . .	0.8	1.9	6.6	3.1	3.5	4.1	4.4	4.4
55–64 years . . . . .	0.5	1.1	2.8	1.6	1.8	1.6	1.8	2.0
65–74 years . . . . .	0.5	0.8	1.4	0.6	0.7	0.8	0.8	0.9
75–84 years . . . . .	0.5	0.4	0.3	0.3	0.3	0.3	0.3	*
85 years and over . . . . .	*	*	*	*	*	*	*	*
All ages, age adjusted <sup>2</sup>								
White male . . . . .	8.7	15.7	20.4	4.5	5.2	4.9	4.6	4.4
Black or African American male . . . . .	26.2	46.3	89.0	33.2	38.0	36.1	35.1	33.8
American Indian or Alaska Native female . . . . .	*	3.3	10.5	3.5	4.0	4.2	3.5	4.2
Asian or Pacific Islander male . . . . .	2.5	4.3	6.0	1.3	1.5	1.4	1.2	1.2
Hispanic or Latino male <sup>3</sup> . . . . .	18.8	28.8	40.8	10.2	11.7	10.9	10.6	9.7
White, not Hispanic or Latino female <sup>3</sup> . . . . .	10.7	14.1	17.9	3.7	4.2	4.0	3.8	3.6
White female . . . . .	0.6	1.1	2.5	0.8	0.9	1.0	1.0	0.9
Black or African American male . . . . .	4.6	10.1	24.4	12.0	13.7	13.1	13.2	13.4
American Indian or Alaska Native female . . . . .	*	*	2.5	0.6	*	1.0	1.0	*
Asian or Pacific Islander female . . . . .	*	*	0.6	0.3	*	0.2	0.2	*
Hispanic or Latino female <sup>3</sup> . . . . .	2.1	3.8	8.8	2.8	3.2	3.0	2.9	2.7
White, not Hispanic or Latino female <sup>3</sup> . . . . .	0.5	0.7	1.7	0.5	0.6	0.7	0.7	0.6

See footnotes at end of table.

**Table 42 (page 2 of 2). Death rates for human immunodeficiency virus (HIV) disease, according to sex, race, Hispanic origin, and age: United States, selected years 1987–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1987</i>	<i>1990</i>	<i>1995</i>	<i>1998</i>	<i>Comparability modified 1998<sup>1</sup></i>	<i>1999<sup>1</sup></i>	<i>2000</i>	<i>2001</i>
Deaths per 100,000 resident population								
Age 25–44 years								
All persons . . . . .	12.7	23.2	36.3	10.1	11.6	10.5	9.8	9.4
White male . . . . .	19.2	35.0	46.1	9.6	11.0	9.7	8.8	8.3
Black or African American male . . . . .	60.2	102.0	179.4	58.1	66.5	59.3	55.4	53.5
American Indian or Alaska Native male . . . . .	*	7.7	28.5	7.5	8.6	9.1	5.5	7.3
Asian or Pacific Islander male . . . . .	4.1	8.1	12.1	2.4	2.7	2.4	1.9	2.1
Hispanic or Latino male <sup>3</sup> . . . . .	36.8	59.3	73.9	16.6	19.0	16.5	14.3	12.4
White, not Hispanic or Latino female <sup>3</sup> . . . . .	23.3	31.6	41.2	8.1	9.3	8.2	7.4	7.2
White female . . . . .	1.2	2.3	5.9	1.8	2.1	2.2	2.1	1.9
Black or African American male . . . . .	11.6	23.6	53.6	25.5	29.2	26.6	26.7	26.0
American Indian or Alaska Native female . . . . .	*	*	*	*	*	*	*	*
Asian or Pacific Islander female . . . . .	*	*	1.2	*	*	*	*	*
Hispanic or Latino female <sup>3</sup> . . . . .	4.9	8.9	17.2	4.6	5.3	5.3	4.6	4.3
White, not Hispanic or Latino female <sup>3</sup> . . . . .	1.0	1.5	4.2	1.3	1.5	1.6	1.6	1.3
Age 45–64 years								
All persons . . . . .	5.8	11.1	19.9	7.0	8.0	8.4	8.7	8.4
White male . . . . .	9.9	18.6	26.0	6.6	7.6	7.8	8.1	7.7
Black or African American male . . . . .	27.3	53.0	133.2	60.9	69.7	70.7	71.6	68.8
American Indian or Alaska Native male . . . . .	*	*	*	*	*	*	*	7.8
Asian or Pacific Islander male . . . . .	*	6.5	9.1	2.4	2.7	2.3	2.1	1.9
Hispanic or Latino male <sup>3</sup> . . . . .	25.8	37.9	67.1	18.3	20.9	21.2	23.3	21.5
White, not Hispanic or Latino female <sup>3</sup> . . . . .	12.6	16.9	22.4	5.4	6.2	6.4	6.5	6.1
White female . . . . .	0.5	0.9	2.4	0.9	1.0	1.2	1.3	1.2
Black or African American male . . . . .	2.6	7.5	27.0	15.4	17.6	18.6	19.6	20.8
American Indian or Alaska Native female . . . . .	*	*	*	*	*	*	*	*
Asian or Pacific Islander female . . . . .	*	*	*	*	*	*	*	*
Hispanic or Latino female <sup>3</sup> . . . . .	*	3.1	12.6	4.9	5.6	5.1	5.8	5.4
White, not Hispanic or Latino female <sup>3</sup> . . . . .	0.5	0.7	1.5	0.5	0.6	0.8	0.9	0.8

\* Rates based on fewer than 20 deaths are considered unreliable and are not shown.

<sup>1</sup>Starting with 1999 data, cause of death is coded according to ICD–10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

<sup>2</sup>Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment.

<sup>3</sup>Prior to 1997, excludes data from States lacking an Hispanic-origin item on the death certificate. See Appendix II, Hispanic origin.

NOTES: Population estimates used to compute rates for 1991–2000 differ from those used previously. Starting with *Health, United States, 2003*, rates for 1991–99 were revised using intercensal population estimates based on Census 2000. Rates for 2000 were revised based on Census 2000 counts. Rates for 2001 were computed using 2000-based postcensal estimates. See Appendix I, Population Census and Population Estimates. The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Persons of Hispanic origin may be of any race. Death rates for the American Indian or Alaska Native and Asian or Pacific Islander populations are known to be underestimated. See Appendix II, Race, for a discussion of sources of bias in death rates by race and Hispanic origin. Categories for the coding and classification of human immunodeficiency virus (HIV) disease were introduced in the United States in 1987. Underlying cause of death code numbers are based on the applicable revision of the *International Classification of Diseases (ICD)* for data years shown. See Appendix II, tables IV and V. Data for additional years are available. See Appendix III.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System; numerator data from annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates for 1987–96 prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census; additional mortality tables are available at [www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm](http://www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm); Arias E, Anderson RN, Kung HC, Murphy SL, Kochanek KD. Deaths: Final data for 2001. National vital statistics reports. Vol 52 no 3. Hyattsville, Maryland: National Center for Health Statistics. 2003.

**Table 43. Maternal mortality for complications of pregnancy, childbirth, and the puerperium, according to race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Race, Hispanic origin, and age</i>	1950 <sup>1</sup>	1960 <sup>1</sup>	1970	1980	1990	1995	1998	1999 <sup>2</sup>	2000	2001
Number of deaths										
All persons . . . . .	2,960	1,579	803	334	343	277	281	391	396	399
White . . . . .	1,873	936	445	193	177	129	158	214	240	228
Black or African American . . . . .	1,041	624	342	127	153	133	104	154	137	150
American Indian or Alaska Native . . . . .	---	---	---	3	4	1	2	5	6	5
Asian or Pacific Islander . . . . .	---	---	---	11	9	14	17	18	13	16
Hispanic or Latino <sup>3</sup> . . . . .	---	---	---	---	47	43	42	67	81	81
White, not Hispanic or Latino <sup>3</sup> . . . . .	---	---	---	---	125	84	116	149	160	151
Deaths per 100,000 live births										
All persons . . . . .	73.7	32.1	21.5	9.4	7.6	6.3	6.1	8.3	8.2	8.8
All ages, age adjusted <sup>4</sup> . . . . .	83.3	37.1	21.5	9.2	8.2	7.1	7.1	9.9	9.8	9.9
All ages, crude . . . . .	70.7	22.7	18.9	7.6	7.5	3.9	*	6.6	*	8.8
Under 20 years . . . . .	47.6	20.7	13.0	5.8	6.1	5.7	5.0	6.2	7.4	6.9
20–24 years . . . . .	63.5	29.8	17.0	7.7	6.0	6.0	6.7	8.2	7.9	8.5
25–29 years . . . . .	107.7	50.3	31.6	13.6	9.5	7.3	7.5	10.1	10.0	10.1
30–34 years . . . . .	222.0	104.3	81.9	36.3	20.7	15.9	14.5	23.0	22.7	18.9
35 years and over <sup>5</sup> . . . . .										
White										
All ages, age adjusted <sup>4</sup> . . . . .	53.1	22.4	14.4	6.7	5.1	3.6	4.2	5.5	6.2	6.5
All ages, crude . . . . .	61.1	26.0	14.3	6.6	5.4	4.2	5.1	6.8	7.5	7.2
Under 20 years . . . . .	44.9	14.8	13.8	5.8	*	*	*	*	*	7.4
20–24 years . . . . .	35.7	15.3	8.4	4.2	3.9	3.5	3.1	4.0	5.6	5.3
25–29 years . . . . .	45.0	20.3	11.1	5.4	4.8	4.0	4.9	5.4	5.9	5.8
30–34 years . . . . .	75.9	34.3	18.7	9.3	5.0	4.0	4.9	7.0	7.1	8.1
35 years and over <sup>5</sup> . . . . .	174.1	73.9	59.3	25.5	12.6	9.1	11.0	16.6	18.0	11.4
Black or African American										
All ages, age adjusted <sup>4</sup> . . . . .	---	92.0	65.5	24.9	21.7	20.9	16.1	23.3	20.1	22.4
All ages, crude . . . . .	---	103.6	60.9	22.4	22.4	22.1	17.1	25.4	22.0	24.7
Under 20 years . . . . .	---	54.8	32.3	13.1	*	*	*	*	*	*
20–24 years . . . . .	---	56.9	41.9	13.9	14.7	15.3	12.7	14.0	15.3	14.6
25–29 years . . . . .	---	92.8	65.2	22.4	14.9	21.0	17.2	26.6	21.8	24.7
30–34 years . . . . .	---	150.6	117.8	44.0	44.2	31.2	27.7	36.1	34.8	30.6
35 years and over <sup>5</sup> . . . . .	---	299.5	207.5	100.6	79.7	61.4	37.2	69.9	62.8	71.0
Hispanic or Latino <sup>3,6</sup>										
All ages, age adjusted <sup>4</sup> . . . . .	---	---	---	---	7.4	5.4	5.2	7.9	9.0	8.8
All ages, crude . . . . .	---	---	---	---	7.9	6.3	5.7	8.8	9.9	9.5
White, not Hispanic or Latino <sup>3</sup>										
All ages, age adjusted <sup>4</sup> . . . . .	---	---	---	---	4.4	3.3	4.0	4.9	5.5	5.8
All ages, crude . . . . .	---	---	---	---	4.8	3.5	4.9	6.4	6.8	6.5

--- Data not available.

\* Rates based on fewer than 20 deaths are considered unreliable and are not shown.

<sup>1</sup>Includes deaths of persons who were not residents of the 50 States and the District of Columbia.

<sup>2</sup>Starting with 1999 data, changes were made in the classification and coding of maternal deaths under ICD–10. The large increase in the number of maternal deaths between 1998 and 1999 is due to changes associated with ICD–10. See Appendix II, *International Classification of Diseases (ICD)*; Maternal death.

<sup>3</sup>Prior to 1997, excludes data from States lacking an Hispanic-origin item on the death certificate. See Appendix II, Hispanic origin.

<sup>4</sup>Rates are age adjusted to the 1970 distribution of live births by mother's age in the United States. See Appendix II, Age adjustment.

<sup>5</sup>Rates computed by relating deaths of women 35 years and over to live births to women 35–49 years. See Appendix II, Rate: Death and related rates.

<sup>6</sup>Age-specific maternal mortality rates are not calculated because rates based on fewer than 20 deaths are considered unreliable.

NOTES: Underlying cause of death code numbers are based on the applicable revision of the *International Classification of Diseases (ICD)* for data years shown. See Appendix II, tables IV and V. The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Persons of Hispanic origin may be of any race. For 1950 and 1960, rates were based on live births by race of child; for all other years, rates are based on live births by race of mother. See Appendix II, Race. Rates are not calculated for American Indian or Alaska Native and Asian or Pacific Islander mothers because rates based on fewer than 20 deaths are considered unreliable. Data for additional years are available. See Appendix III.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System; numerator data from annual mortality files; denominator data from annual natality files; Arias E, Anderson RN, Kung HC, Murphy SL, Kochanek KD. Deaths: Final data for 2001. National vital statistics reports. Vol 52 no 3. Hyattsville, Maryland: National Center for Health Statistics. 2003.

**Table 44 (page 1 of 4). Death rates for motor vehicle-related injuries, according to sex, race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1950<sup>1</sup></i>	<i>1960<sup>1</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>2000<sup>2</sup></i>	<i>2001</i>
Deaths per 100,000 resident population								
All persons								
All ages, age adjusted <sup>3</sup> . . . . .	24.6	23.1	27.6	22.3	18.5	16.3	15.4	15.3
All ages, crude . . . . .	23.1	21.3	26.9	23.5	18.8	16.3	15.4	15.4
Under 1 year . . . . .	8.4	8.1	9.8	7.0	4.9	4.7	4.4	3.6
1–14 years . . . . .	9.8	8.6	10.5	8.2	6.0	5.3	4.3	4.1
1–4 years . . . . .	11.5	10.0	11.5	9.2	6.3	5.2	4.2	4.1
5–14 years . . . . .	8.8	7.9	10.2	7.9	5.9	5.3	4.3	4.1
15–24 years . . . . .	34.4	38.0	47.2	44.8	34.1	28.9	26.9	26.8
15–19 years . . . . .	29.6	33.9	43.6	43.0	33.1	28.1	26.0	25.7
20–24 years . . . . .	38.8	42.9	51.3	46.6	35.0	29.7	28.0	28.0
25–34 years . . . . .	24.6	24.3	30.9	29.1	23.6	19.2	17.3	17.5
35–44 years . . . . .	20.3	19.3	24.9	20.9	16.9	15.3	15.3	15.7
45–64 years . . . . .	25.2	23.0	26.5	18.0	15.7	14.1	14.3	14.0
45–54 years . . . . .	22.2	21.4	25.5	18.6	15.6	13.8	14.2	14.2
55–64 years . . . . .	29.0	25.1	27.9	17.4	15.9	14.5	14.4	13.7
65 years and over . . . . .	43.1	34.7	36.2	22.5	23.1	22.6	21.4	21.3
65–74 years . . . . .	39.1	31.4	32.8	19.2	18.6	17.5	16.5	16.3
75–84 years . . . . .	52.7	41.8	43.5	28.1	29.1	28.4	25.7	26.3
85 years and over . . . . .	45.1	37.9	34.2	27.6	31.2	31.0	30.4	27.8
Male								
All ages, age adjusted <sup>3</sup> . . . . .	38.5	35.4	41.5	33.6	26.5	22.8	21.7	21.8
All ages, crude . . . . .	35.4	31.8	39.7	35.3	26.7	22.4	21.3	21.5
Under 1 year . . . . .	9.1	8.6	9.3	7.3	5.0	4.9	4.6	3.2
1–14 years . . . . .	12.3	10.7	13.0	10.0	7.0	6.1	4.9	4.8
1–4 years . . . . .	13.0	11.5	12.9	10.2	6.9	5.6	4.7	4.5
5–14 years . . . . .	11.9	10.4	13.1	9.9	7.0	6.3	5.0	4.9
15–24 years . . . . .	56.7	61.2	73.2	68.4	49.5	40.5	37.4	38.0
15–19 years . . . . .	46.3	51.7	64.1	62.6	45.5	36.1	33.9	34.0
20–24 years . . . . .	66.7	73.2	84.4	74.3	53.3	45.0	41.2	42.1
25–34 years . . . . .	40.8	40.1	49.4	46.3	35.7	28.1	25.5	26.2
35–44 years . . . . .	32.5	29.9	37.7	31.7	24.7	21.7	22.0	22.4
45–64 years . . . . .	37.7	33.3	38.9	26.5	21.9	19.5	20.2	19.9
45–54 years . . . . .	33.6	31.6	37.2	27.6	22.0	19.3	20.4	20.5
55–64 years . . . . .	43.1	35.6	40.9	25.4	21.7	19.6	19.8	19.0
65 years and over . . . . .	66.6	52.1	54.4	33.9	32.1	30.7	29.5	29.5
65–74 years . . . . .	59.1	45.8	47.3	27.3	24.2	22.2	21.7	21.5
75–84 years . . . . .	85.0	66.0	68.2	44.3	41.2	39.9	35.6	37.3
85 years and over . . . . .	78.1	62.7	63.1	56.1	64.5	61.5	57.5	51.1
Female								
All ages, age adjusted <sup>3</sup> . . . . .	11.5	11.7	14.9	11.8	11.0	10.3	9.5	9.3
All ages, crude . . . . .	10.9	11.0	14.7	12.3	11.3	10.4	9.7	9.5
Under 1 year . . . . .	7.6	7.5	10.4	6.7	4.9	4.5	4.2	4.0
1–14 years . . . . .	7.2	6.3	7.9	6.3	4.9	4.4	3.7	3.4
1–4 years . . . . .	10.0	8.4	10.0	8.1	5.6	4.8	3.8	3.6
5–14 years . . . . .	5.7	5.4	7.2	5.7	4.7	4.2	3.6	3.3
15–24 years . . . . .	12.6	15.1	21.6	20.8	17.9	16.8	15.9	15.1
15–19 years . . . . .	12.9	16.0	22.7	22.8	20.0	19.7	17.5	16.9
20–24 years . . . . .	12.2	14.0	20.4	18.9	16.0	13.8	14.2	13.4
25–34 years . . . . .	9.3	9.2	13.0	12.2	11.5	10.2	8.8	8.7
35–44 years . . . . .	8.5	9.1	12.9	10.4	9.2	9.0	8.8	9.1
45–64 years . . . . .	12.6	13.1	15.3	10.3	10.1	9.0	8.7	8.4
45–54 years . . . . .	10.9	11.6	14.5	10.2	9.6	8.4	8.2	8.1
55–64 years . . . . .	14.9	15.2	16.2	10.5	10.8	9.9	9.5	8.8
65 years and over . . . . .	21.9	20.3	23.1	15.0	17.2	17.0	15.8	15.5
65–74 years . . . . .	20.6	19.0	21.6	13.0	14.1	13.7	12.3	12.0
75–84 years . . . . .	25.2	23.0	27.2	18.5	21.9	21.2	19.2	19.2
85 years and over . . . . .	22.1	22.0	18.0	15.2	18.3	19.3	19.3	18.0
White male <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	37.9	34.8	40.4	33.8	26.3	22.6	21.8	22.0
All ages, crude . . . . .	35.1	31.5	39.1	35.9	26.7	22.4	21.6	21.9
Under 1 year . . . . .	9.1	8.8	9.1	7.0	4.8	4.3	4.2	3.1
1–14 years . . . . .	12.4	10.6	12.5	9.8	6.6	5.9	4.8	4.6
15–24 years . . . . .	58.3	62.7	75.2	73.8	52.5	42.4	39.6	40.0
25–34 years . . . . .	39.1	38.6	47.0	46.6	35.4	27.9	25.1	26.4
35–44 years . . . . .	30.9	28.4	35.2	30.7	23.7	21.1	21.8	22.4
45–64 years . . . . .	36.2	31.7	36.5	25.2	20.6	18.7	19.7	19.5
65 years and over . . . . .	67.1	52.1	54.2	32.7	31.4	30.1	29.4	29.9

See footnotes at end of table.

**Table 44 (page 2 of 4). Death rates for motor vehicle-related injuries, according to sex, race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1950<sup>1</sup></i>	<i>1960<sup>1</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>2000<sup>2</sup></i>	<i>2001</i>
Deaths per 100,000 resident population								
<b>Black or African American male<sup>4</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	34.8	39.6	51.0	34.2	29.9	26.1	24.4	23.5
All ages, crude . . . . .	37.2	33.1	44.3	31.1	28.1	24.1	22.5	22.0
Under 1 year . . . . .	---	*	10.6	7.8	*	8.7	6.7	*
1–14 years <sup>5</sup> . . . . .	10.4	11.2	16.3	11.4	8.9	7.5	5.5	6.1
15–24 years . . . . .	42.5	46.4	58.1	34.9	36.1	33.9	30.2	31.4
25–34 years . . . . .	54.4	51.0	70.4	44.9	39.5	32.2	32.6	29.9
35–44 years . . . . .	46.7	43.6	59.5	41.2	33.5	28.7	27.2	26.1
45–64 years . . . . .	54.6	47.8	61.7	39.5	33.3	26.2	27.1	26.7
65 years and over . . . . .	52.6	48.2	53.4	42.4	36.3	36.9	32.1	28.1
<b>American Indian or Alaska Native male<sup>4</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	78.9	48.3	40.7	35.8	34.6
All ages, crude . . . . .	---	---	---	74.6	47.6	40.1	33.6	33.2
1–14 years . . . . .	---	---	---	15.1	11.6	7.6	7.8	8.4
15–24 years . . . . .	---	---	---	126.1	75.2	69.0	56.8	55.7
25–34 years . . . . .	---	---	---	107.0	78.2	67.8	49.8	43.2
35–44 years . . . . .	---	---	---	82.8	57.0	45.2	36.3	42.3
45–64 years . . . . .	---	---	---	77.4	45.9	38.8	32.0	30.7
65 years and over . . . . .	---	---	---	97.0	43.0	*	48.5	40.4
<b>Asian or Pacific Islander male<sup>4</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	19.0	17.9	14.5	10.6	10.4
All ages, crude . . . . .	---	---	---	17.1	15.8	12.6	9.8	9.7
1–14 years . . . . .	---	---	---	8.2	6.3	4.5	2.5	2.2
15–24 years . . . . .	---	---	---	27.2	25.7	18.5	17.0	19.3
25–34 years . . . . .	---	---	---	18.8	17.0	12.4	10.4	10.0
35–44 years . . . . .	---	---	---	13.1	12.2	9.9	6.9	7.3
45–64 years . . . . .	---	---	---	13.7	15.1	14.3	10.1	7.9
65 years and over . . . . .	---	---	---	37.3	33.6	32.1	21.1	21.8
<b>Hispanic or Latino male<sup>4,6</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	29.5	24.4	21.3	22.2
All ages, crude . . . . .	---	---	---	---	29.2	22.4	20.1	21.0
1–14 years . . . . .	---	---	---	---	7.2	5.7	4.4	4.4
15–24 years . . . . .	---	---	---	---	48.2	37.1	34.7	36.9
25–34 years . . . . .	---	---	---	---	41.0	28.8	24.9	26.8
35–44 years . . . . .	---	---	---	---	28.0	23.2	21.6	23.1
45–64 years . . . . .	---	---	---	---	28.9	23.0	21.7	20.5
65 years and over . . . . .	---	---	---	---	35.3	37.0	28.9	31.0
<b>White, not Hispanic or Latino male<sup>6</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	25.7	22.1	21.7	21.7
All ages, crude . . . . .	---	---	---	---	26.0	21.9	21.5	21.7
1–14 years . . . . .	---	---	---	---	6.4	5.8	4.9	4.6
15–24 years . . . . .	---	---	---	---	52.3	42.7	40.3	40.1
25–34 years . . . . .	---	---	---	---	34.0	27.1	24.7	25.9
35–44 years . . . . .	---	---	---	---	23.1	20.3	21.6	21.9
45–64 years . . . . .	---	---	---	---	19.8	18.1	19.3	19.2
65 years and over . . . . .	---	---	---	---	31.1	29.4	29.3	29.7
<b>White female<sup>4</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	11.4	11.7	14.9	12.2	11.2	10.4	9.8	9.5
All ages, crude . . . . .	10.9	11.2	14.8	12.8	11.6	10.7	10.0	9.8
Under 1 year . . . . .	7.8	7.5	10.2	7.1	4.7	4.5	3.5	3.8
1–14 years . . . . .	7.2	6.2	7.5	6.2	4.8	4.3	3.7	3.3
15–24 years . . . . .	12.6	15.6	22.7	23.0	19.5	18.1	17.1	16.0
25–34 years . . . . .	9.0	9.0	12.7	12.2	11.6	10.2	8.9	8.8
35–44 years . . . . .	8.1	8.9	12.3	10.6	9.2	8.9	8.9	9.3
45–64 years . . . . .	12.7	13.1	15.1	10.4	9.9	8.9	8.7	8.4
65 years and over . . . . .	22.2	20.8	23.7	15.3	17.4	17.5	16.2	16.0

See footnotes at end of table.

**Table 44 (page 3 of 4). Death rates for motor vehicle-related injuries, according to sex, race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1950<sup>1</sup></i>	<i>1960<sup>1</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>2000<sup>2</sup></i>	<i>2001</i>
Deaths per 100,000 resident population								
<b>Black or African American female<sup>4</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	9.3	10.4	14.1	8.5	9.6	9.0	8.4	8.5
All ages, crude . . . . .	10.2	9.7	13.4	8.3	9.4	8.8	8.2	8.2
Under 1 year . . . . .	---	8.1	11.9	*	7.0	*	*	*
1–14 years <sup>5</sup> . . . . .	7.2	6.9	10.2	6.3	5.3	4.9	3.9	3.7
15–24 years . . . . .	11.6	9.9	13.4	8.0	9.9	10.5	11.7	11.7
25–34 years . . . . .	10.8	9.8	13.3	10.6	11.1	10.3	9.4	8.9
35–44 years . . . . .	11.1	11.0	16.1	8.3	9.4	9.7	8.2	9.2
45–64 years . . . . .	11.8	12.7	16.7	9.2	10.7	9.3	9.0	8.3
65 years and over . . . . .	14.3	13.2	15.7	9.5	13.5	11.4	10.4	11.8
<b>American Indian or Alaska Native female<sup>4</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	32.0	17.5	18.2	19.5	17.6
All ages, crude . . . . .	---	---	---	32.0	17.3	18.8	18.6	16.9
1–14 years . . . . .	---	---	---	15.0	8.1	8.1	6.5	7.6
15–24 years . . . . .	---	---	---	42.3	31.4	30.4	30.3	30.7
25–34 years . . . . .	---	---	---	52.5	18.8	33.7	22.3	15.5
35–44 years . . . . .	---	---	---	38.1	18.2	17.2	22.0	13.1
45–64 years . . . . .	---	---	---	32.6	17.6	15.7	17.8	18.1
65 years and over . . . . .	---	---	---	*	*	*	24.0	25.3
<b>Asian or Pacific Islander female<sup>4</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	9.3	10.4	8.6	6.7	6.1
All ages, crude . . . . .	---	---	---	8.2	9.0	7.7	5.9	5.9
1–14 years . . . . .	---	---	---	7.4	3.6	3.2	2.3	2.2
15–24 years . . . . .	---	---	---	7.4	11.4	11.5	6.0	7.6
25–34 years . . . . .	---	---	---	7.3	7.3	4.8	4.5	4.8
35–44 years . . . . .	---	---	---	8.6	7.5	5.9	4.9	5.4
45–64 years . . . . .	---	---	---	8.5	11.8	10.4	6.4	7.0
65 years and over . . . . .	---	---	---	18.6	24.3	18.9	18.5	11.8
<b>Hispanic or Latino female<sup>4,6</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	9.6	8.8	7.9	7.8
All ages, crude . . . . .	---	---	---	---	8.9	8.0	7.2	7.2
1–14 years . . . . .	---	---	---	---	4.8	4.3	3.9	3.3
15–24 years . . . . .	---	---	---	---	11.6	11.8	10.6	11.2
25–34 years . . . . .	---	---	---	---	9.4	7.2	6.5	6.5
35–44 years . . . . .	---	---	---	---	8.0	7.9	7.3	6.9
45–64 years . . . . .	---	---	---	---	11.4	9.3	8.3	8.4
65 years and over . . . . .	---	---	---	---	14.9	14.6	13.4	12.9

See footnotes at end of table.



**Table 44 (page 4 of 4). Death rates for motor vehicle-related injuries, according to sex, race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

Sex, race, Hispanic origin, and age	1950 <sup>1</sup>	1960 <sup>1</sup>	1970	1980	1990	1995	2000 <sup>2</sup>	2001
White, not Hispanic or Latino female <sup>6</sup>								
	Deaths per 100,000 resident population							
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	11.3	10.5	10.0	9.7
All ages, crude . . . . .	---	---	---	---	11.7	10.9	10.3	10.1
1–14 years . . . . .	---	---	---	---	4.7	4.2	3.5	3.2
15–24 years . . . . .	---	---	---	---	20.4	19.0	18.4	17.0
25–34 years . . . . .	---	---	---	---	11.7	10.5	9.3	9.3
35–44 years . . . . .	---	---	---	---	9.3	8.9	9.0	9.6
45–64 years . . . . .	---	---	---	---	9.7	8.6	8.7	8.3
65 years and over . . . . .	---	---	---	---	17.5	17.5	16.3	16.1

--- Data not available.

\* Rates based on fewer than 20 deaths are considered unreliable and are not shown.

<sup>1</sup>Includes deaths of persons who were not residents of the 50 States and the District of Columbia.

<sup>2</sup>Starting with 1999 data, cause of death is coded according to ICD–10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

<sup>3</sup>Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment.

<sup>4</sup>The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Persons of Hispanic origin may be of any race. Death rates for the American Indian or Alaska Native and Asian or Pacific Islander populations are known to be underestimated. See Appendix II, Race, for a discussion of sources of bias in death rates by race and Hispanic origin.

<sup>5</sup>In 1950 rate is for the age group under 15 years.

<sup>6</sup>Prior to 1997, excludes data from States lacking an Hispanic-origin item on the death certificate. See Appendix II, Hispanic origin.

NOTES: Population estimates used to compute rates for 1991–2000 differ from those used previously. Starting with *Health, United States, 2003*, rates for 1991–99 were revised using intercensal population estimates based on Census 2000. Rates for 2000 were revised based on Census 2000 counts. Rates for 2001 were computed using 2000-based postcensal estimates. See Appendix I, Population Census and Population Estimates. Underlying cause of death code numbers are based on the applicable revision of the *International Classification of Diseases* (ICD) for data years shown. See Appendix II, tables IV and V. Age groups were selected to minimize the presentation of unstable age-specific death rates based on small numbers of deaths and for consistency among comparison groups. For additional injury-related statistics, see [www.cdc.gov/ncipc/wisqars](http://www.cdc.gov/ncipc/wisqars), a Web-based interactive database for injury data. Data for additional years are available. See Appendix III.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System; Grove RD, Hetzel AM. Vital statistics rates in the United States, 1940–1960. Washington: U.S. Government Printing Office. 1968; numerator data from National Vital Statistics System, annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates for 1985–96 prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census; additional mortality tables are available at [www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm](http://www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm); Arias E, Anderson RN, Kung HC, Murphy SL, Kochanek KD. Deaths: Final data for 2001. National vital statistics reports. Vol 52 no 3. Hyattsville, Maryland: National Center for Health Statistics. 2003.

**Table 45 (page 1 of 3). Death rates for homicide, according to sex, race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1950<sup>1</sup></i>	<i>1960<sup>1</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>2000<sup>2</sup></i>	<i>2001</i>
Deaths per 100,000 resident population								
All persons								
All ages, age adjusted . . . . .	5.1	5.0	8.8	10.4	9.4	8.3	5.9	7.1
All ages, crude . . . . .	5.0	4.6	8.1	10.6	9.9	8.5	6.0	7.1
Under 1 year . . . . .	4.4	4.8	4.3	5.9	8.4	8.2	9.2	8.2
1–14 years . . . . .	0.6	0.6	1.1	1.5	1.8	1.9	1.3	1.3
1–4 years . . . . .	0.6	0.7	1.9	2.5	2.5	2.9	2.3	2.7
5–14 years . . . . .	0.5	0.5	0.9	1.2	1.5	1.5	0.9	0.8
15–24 years . . . . .	5.8	5.6	11.3	15.4	19.7	19.6	12.6	13.3
15–19 years . . . . .	3.9	3.9	7.7	10.5	16.9	17.8	9.5	9.4
20–24 years . . . . .	8.5	7.7	15.6	20.2	22.2	21.5	16.0	17.3
25–44 years . . . . .	8.9	8.5	14.9	17.5	14.7	11.9	8.7	11.2
25–34 years . . . . .	9.3	9.2	16.2	19.3	17.4	14.4	10.4	13.1
35–44 years . . . . .	8.4	7.8	13.5	14.9	11.6	9.4	7.1	9.5
45–64 years . . . . .	5.0	5.3	8.7	9.0	6.3	5.4	4.0	5.4
45–54 years . . . . .	5.9	6.1	10.0	11.0	7.5	6.0	4.7	6.3
55–64 years . . . . .	3.9	4.1	7.1	7.0	5.0	4.4	3.0	4.0
65 years and over . . . . .	3.0	2.7	4.6	5.5	4.0	3.1	2.4	2.7
65–74 years . . . . .	3.2	2.8	4.9	5.7	3.8	3.2	2.4	2.9
75–84 years . . . . .	2.5	2.3	4.0	5.2	4.3	3.0	2.4	2.5
85 years and over . . . . .	2.3	2.4	4.2	5.3	4.6	3.2	2.4	2.4
Male								
All ages, age adjusted <sup>3</sup> . . . . .	7.9	7.5	14.3	16.6	14.8	12.8	9.0	10.8
All ages, crude . . . . .	7.7	6.8	13.1	17.1	15.9	13.4	9.3	11.1
Under 1 year . . . . .	4.5	4.7	4.5	6.3	8.8	9.0	10.4	9.5
1–14 years . . . . .	0.6	0.6	1.2	1.6	2.0	2.2	1.5	1.5
1–4 years . . . . .	0.5	0.7	1.9	2.7	2.7	3.1	2.5	3.0
5–14 years . . . . .	0.6	0.5	1.0	1.2	1.7	1.9	1.1	0.9
15–24 years . . . . .	8.6	8.4	18.2	24.0	32.5	32.8	20.9	22.2
15–19 years . . . . .	5.5	5.7	12.1	15.9	27.8	29.1	15.5	15.7
20–24 years . . . . .	13.5	11.8	25.6	32.2	36.9	36.5	26.7	28.9
25–44 years . . . . .	13.8	12.8	24.4	28.9	23.5	18.2	13.3	17.2
25–34 years . . . . .	14.4	13.9	26.8	31.9	27.7	22.5	16.7	20.8
35–44 years . . . . .	13.2	11.7	21.7	24.5	18.6	14.0	10.3	13.9
45–64 years . . . . .	8.1	8.1	14.8	15.2	10.2	8.3	6.0	8.1
45–54 years . . . . .	9.5	9.4	16.8	18.4	11.9	9.2	6.9	9.5
55–64 years . . . . .	6.3	6.4	12.1	11.8	8.0	7.0	4.6	5.9
65 years and over . . . . .	4.8	4.3	7.7	8.8	5.8	4.2	3.3	3.6
65–74 years . . . . .	5.2	4.6	8.5	9.2	5.8	4.5	3.4	4.0
75–84 years . . . . .	3.9	3.7	5.9	8.1	5.7	3.7	3.2	3.1
85 years and over . . . . .	2.5	3.6	7.4	7.5	6.7	4.1	3.3	3.2
Female								
All ages, age adjusted <sup>3</sup> . . . . .	2.4	2.6	3.7	4.4	4.0	3.7	2.8	3.3
All ages, crude . . . . .	2.4	2.4	3.4	4.5	4.2	3.8	2.8	3.3
Under 1 year . . . . .	4.2	4.9	4.1	5.6	8.0	7.4	7.9	6.9
1–14 years . . . . .	0.6	0.5	1.0	1.4	1.6	1.5	1.1	1.1
1–4 years . . . . .	0.7	0.7	1.9	2.2	2.3	2.6	2.1	2.4
5–14 years . . . . .	0.5	0.4	0.7	1.1	1.2	1.0	0.7	0.7
15–24 years . . . . .	3.0	2.8	4.6	6.6	6.2	5.9	3.9	3.9
15–19 years . . . . .	2.4	1.9	3.2	4.9	5.4	5.8	3.1	2.7
20–24 years . . . . .	3.7	3.8	6.2	8.2	7.0	6.0	4.7	5.1
25–44 years . . . . .	4.2	4.3	5.8	6.4	6.0	5.6	4.0	5.2
25–34 years . . . . .	4.5	4.6	6.0	6.9	7.1	6.3	4.1	5.3
35–44 years . . . . .	3.8	4.0	5.7	5.7	4.8	4.9	4.0	5.1
45–64 years . . . . .	1.9	2.5	3.1	3.4	2.8	2.6	2.1	2.8
45–54 years . . . . .	2.3	2.9	3.7	4.1	3.2	2.9	2.5	3.2
55–64 years . . . . .	1.4	2.0	2.5	2.8	2.3	2.1	1.6	2.2
65 years and over . . . . .	1.4	1.3	2.3	3.3	2.8	2.4	1.8	2.0
65–74 years . . . . .	1.3	1.3	2.2	3.0	2.2	2.1	1.6	2.0
75–84 years . . . . .	1.4	1.3	2.7	3.5	3.4	2.6	2.0	2.1
85 years and over . . . . .	2.1	1.6	2.5	4.3	3.8	2.9	2.0	2.0
White male <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	3.8	3.9	7.2	10.4	8.3	7.3	5.2	7.1
All ages, crude . . . . .	3.6	3.6	6.6	10.7	8.8	7.5	5.2	7.2
Under 1 year . . . . .	4.3	3.8	2.9	4.3	6.4	7.1	8.2	7.3
1–14 years . . . . .	0.4	0.5	0.7	1.2	1.3	1.5	1.2	1.1
15–24 years . . . . .	3.2	5.0	7.6	15.1	15.2	15.9	9.9	11.2
25–44 years . . . . .	5.4	5.5	11.6	17.2	13.0	10.4	7.4	11.5
25–34 years . . . . .	4.9	5.7	12.5	18.5	14.7	12.1	8.4	12.3
35–44 years . . . . .	6.1	5.2	10.8	15.2	11.1	8.7	6.5	10.7
45–64 years . . . . .	4.8	4.6	8.3	9.8	6.9	5.5	4.1	6.4
65 years and over . . . . .	3.8	3.1	5.4	6.7	4.1	2.9	2.5	3.0

See footnotes at end of table.

**Table 45 (page 2 of 3). Death rates for homicide, according to sex, race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1950<sup>1</sup></i>	<i>1960<sup>1</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>2000<sup>2</sup></i>	<i>2001</i>
Deaths per 100,000 resident population								
Black or African American male <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	47.0	42.3	78.2	69.4	63.1	51.1	35.4	36.2
All ages, crude . . . . .	44.7	35.0	66.0	65.7	68.5	54.5	37.2	38.3
Under 1 year . . . . .	---	10.3	14.3	18.6	21.4	20.3	23.3	21.0
1–14 years <sup>5</sup> . . . . .	1.8	1.5	4.4	4.1	5.8	5.8	3.1	3.6
15–24 years . . . . .	53.8	43.2	98.3	82.6	137.1	129.4	85.3	85.7
25–44 years . . . . .	92.8	80.5	140.2	130.0	105.4	75.8	55.8	58.1
25–34 years . . . . .	104.3	86.4	154.5	142.9	123.7	95.1	73.9	78.8
35–44 years . . . . .	80.0	74.4	124.0	109.3	81.2	54.9	38.5	38.5
45–64 years . . . . .	46.0	44.6	82.3	70.6	41.4	33.4	21.9	22.7
65 years and over . . . . .	16.5	17.3	33.3	30.9	25.7	20.3	12.8	11.5
American Indian or Alaska Native male <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	23.3	16.7	14.4	10.7	9.3
All ages, crude . . . . .	---	---	---	23.1	16.6	15.7	10.7	9.6
15–24 years . . . . .	---	---	---	35.4	25.1	28.0	17.0	16.1
25–44 years . . . . .	---	---	---	39.2	25.7	24.6	17.0	13.6
45–64 years . . . . .	---	---	---	22.1	14.8	12.0	*	8.9
Asian or Pacific Islander male <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	9.1	7.3	7.2	4.3	6.0
All ages, crude . . . . .	---	---	---	8.3	7.9	7.5	4.4	6.3
15–24 years . . . . .	---	---	---	9.3	14.9	17.2	7.8	9.1
25–44 years . . . . .	---	---	---	11.3	9.6	7.4	4.6	8.5
45–64 years . . . . .	---	---	---	10.4	7.0	7.7	6.1	7.7
Hispanic or Latino male <sup>4,6</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	27.4	20.4	11.8	12.9
All ages, crude . . . . .	---	---	---	---	31.0	23.5	13.4	14.5
Under 1 year . . . . .	---	---	---	---	8.7	5.9	6.6	7.9
1–14 years . . . . .	---	---	---	---	3.1	3.2	1.7	1.5
15–24 years . . . . .	---	---	---	---	55.4	54.7	28.5	30.5
25–44 years . . . . .	---	---	---	---	46.4	28.8	17.2	19.2
25–34 years . . . . .	---	---	---	---	50.9	33.0	19.9	21.6
35–44 years . . . . .	---	---	---	---	39.3	22.8	13.5	15.9
45–64 years . . . . .	---	---	---	---	20.5	14.7	9.1	9.8
65 years and over . . . . .	---	---	---	---	9.4	5.8	4.4	5.5
White, not Hispanic or Latino male <sup>6</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	5.6	4.8	3.6	5.6
All ages, crude . . . . .	---	---	---	---	5.8	4.9	3.6	5.6
Under 1 year . . . . .	---	---	---	---	5.4	6.8	8.3	6.8
1–14 years . . . . .	---	---	---	---	0.9	1.1	1.0	1.0
15–24 years . . . . .	---	---	---	---	7.5	7.2	4.7	5.7
25–44 years . . . . .	---	---	---	---	8.7	7.2	5.2	9.4
25–34 years . . . . .	---	---	---	---	9.3	7.7	5.2	9.3
35–44 years . . . . .	---	---	---	---	8.0	6.7	5.2	9.5
45–64 years . . . . .	---	---	---	---	5.7	4.6	3.6	5.9
65 years and over . . . . .	---	---	---	---	3.7	2.6	2.3	2.8
White female <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	1.4	1.5	2.3	3.2	2.7	2.7	2.1	2.6
All ages, crude . . . . .	1.4	1.4	2.1	3.2	2.8	2.7	2.1	2.6
Under 1 year . . . . .	3.9	3.5	2.9	4.3	5.1	5.1	5.0	5.1
1–14 years . . . . .	0.4	0.4	0.7	1.1	1.0	1.1	0.8	0.9
15–24 years . . . . .	1.3	1.5	2.7	4.7	4.0	4.0	2.7	3.0
25–44 years . . . . .	2.0	2.1	3.3	4.2	3.8	3.7	2.9	4.0
45–64 years . . . . .	1.5	1.7	2.1	2.6	2.3	2.2	1.8	2.4
65 years and over . . . . .	1.2	1.2	1.9	2.9	2.2	2.0	1.6	1.8
Black or African American female <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	11.1	11.4	14.7	13.2	12.5	10.4	7.1	7.4
All ages, crude . . . . .	11.5	10.4	13.2	13.5	13.4	10.9	7.2	7.4
Under 1 year . . . . .	---	13.8	10.7	12.8	22.8	20.1	22.2	16.7
1–14 years <sup>5</sup> . . . . .	1.8	1.2	3.1	3.3	4.7	3.4	2.7	2.1
15–24 years . . . . .	16.5	11.9	17.7	18.4	18.9	16.4	10.7	8.9
25–44 years . . . . .	22.5	22.7	25.3	22.6	21.0	17.1	11.0	12.5
45–64 years . . . . .	6.8	10.3	13.4	10.8	6.5	5.9	4.5	5.7
65 years and over . . . . .	3.6	3.0	7.4	8.0	9.4	6.8	3.5	3.7

See footnotes at end of table.

**Table 45 (page 3 of 3). Death rates for homicide, according to sex, race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	1950 <sup>1</sup>	1960 <sup>1</sup>	1970	1980	1990	1995	2000 <sup>2</sup>	2001
Deaths per 100,000 resident population								
American Indian or Alaska Native female <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	8.1	4.6	5.3	3.0	4.2
All ages, crude . . . . .	---	---	---	7.7	4.8	5.1	2.9	4.2
15–24 years . . . . .	---	---	---	*	*	*	*	*
25–44 years . . . . .	---	---	---	13.7	6.9	8.3	5.9	5.9
45–64 years . . . . .	---	---	---	*	*	*	*	*
Asian or Pacific Islander female <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	3.1	2.8	2.4	1.7	2.5
All ages, crude . . . . .	---	---	---	3.1	2.8	2.6	1.7	2.7
15–24 years . . . . .	---	---	---	*	*	3.4	*	*
25–44 years . . . . .	---	---	---	4.6	3.8	3.6	2.2	4.0
45–64 years . . . . .	---	---	---	*	*	2.2	2.0	2.7
Hispanic or Latino female <sup>4,6</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	4.3	4.0	2.8	3.1
All ages, crude . . . . .	---	---	---	---	4.7	4.2	2.8	3.2
Under 1 year . . . . .	---	---	---	---	*	*	7.4	5.5
1–14 years . . . . .	---	---	---	---	1.9	1.8	1.0	1.0
15–24 years . . . . .	---	---	---	---	8.1	6.4	3.7	4.0
25–44 years . . . . .	---	---	---	---	6.1	5.6	3.7	4.8
45–64 years . . . . .	---	---	---	---	3.3	3.4	2.9	3.0
65 years and over . . . . .	---	---	---	---	*	2.4	2.4	2.0
White, not Hispanic or Latino female <sup>6</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	2.5	2.3	1.9	2.5
All ages, crude . . . . .	---	---	---	---	2.5	2.3	1.9	2.4
Under 1 year . . . . .	---	---	---	---	4.4	4.4	4.1	4.7
1–14 years . . . . .	---	---	---	---	0.8	0.9	0.8	0.9
15–24 years . . . . .	---	---	---	---	3.3	3.4	2.3	2.7
25–44 years . . . . .	---	---	---	---	3.5	3.3	2.7	3.7
45–64 years . . . . .	---	---	---	---	2.2	1.9	1.6	2.3
65 years and over . . . . .	---	---	---	---	2.2	1.9	1.6	1.8

--- Data not available.

\* Rates based on fewer than 20 deaths are considered unreliable and are not shown.

<sup>1</sup>Includes deaths of persons who were not residents of the 50 States and the District of Columbia.

<sup>2</sup>Starting with 1999 data, cause of death is coded according to ICD–10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

<sup>3</sup>Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment.

<sup>4</sup>The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Persons of Hispanic origin may be of any race. Death rates for the American Indian or Alaska Native and Asian or Pacific Islander populations are known to be underestimated. See Appendix II, Race, for a discussion of sources of bias in death rates by race and Hispanic origin.

<sup>5</sup>In 1950 rate is for the age group under 15 years.

<sup>6</sup>Prior to 1997, excludes data from States lacking an Hispanic-origin item on the death certificate. See Appendix II, Hispanic origin.

NOTES: Population estimates used to compute rates for 1991–2000 differ from those used previously. Starting with *Health, United States, 2003*, rates for 1991–99 were revised using intercensal population estimates based on Census 2000. Rates for 2000 were revised based on Census 2000 counts. Rates for 2001 were computed using 2000-based postcensal estimates. See Appendix I, Population Census and Population Estimates. Figures for 2001 include September 11 related deaths for which death certificates were filed as of October 24, 2002. Underlying cause of death code numbers are based on the applicable revision of the *International Classification of Diseases* (ICD) for data years shown. For the period 1980–98, causes were coded using ICD–9 codes that are most nearly comparable with the 113 cause list for ICD–10. See Appendix II, tables IV and updated V for new terrorism-related ICD–10 codes. Age groups were selected to minimize the presentation of unstable age-specific death rates based on small numbers of deaths and for consistency among comparison groups. For additional injury-related statistics, see [www.cdc.gov/ncipc/wisqars](http://www.cdc.gov/ncipc/wisqars), a Web-based interactive database for injury data. Data for additional years are available. See Appendix III.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System; Grove RD, Hetzel AM. Vital statistics rates in the United States, 1940–1960. Washington: U.S. Government Printing Office. 1968; numerator data from National Vital Statistics System, annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates for 1985–96 prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census; additional mortality tables are available at [www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm](http://www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm); Arias E, Anderson RN, Kung HC, Murphy SL, Kochanek KD. Deaths: Final data for 2001. National vital statistics reports. Vol 52 no 3. Hyattsville, Maryland: National Center for Health Statistics. 2003.

**Table 46 (page 1 of 3). Death rates for suicide, according to sex, race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1950<sup>1</sup></i>	<i>1960<sup>1</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>2000<sup>2</sup></i>	<i>2001</i>
Deaths per 100,000 resident population								
All persons								
All ages, age adjusted <sup>3</sup> . . . . .	13.2	12.5	13.1	12.2	12.5	11.8	10.4	10.7
All ages, crude . . . . .	11.4	10.6	11.6	11.9	12.4	11.7	10.4	10.8
Under 1 year . . . . .	...	...	...	...	...	...	...	...
1–4 years . . . . .	...	...	...	...	...	...	...	...
5–14 years . . . . .	0.2	0.3	0.3	0.4	0.8	0.9	0.7	0.7
15–24 years . . . . .	4.5	5.2	8.8	12.3	13.2	13.0	10.2	9.9
15–19 years . . . . .	2.7	3.6	5.9	8.5	11.1	10.3	8.0	7.9
20–24 years . . . . .	6.2	7.1	12.2	16.1	15.1	15.8	12.5	12.0
25–44 years . . . . .	11.6	12.2	15.4	15.6	15.2	15.1	13.4	13.8
25–34 years . . . . .	9.1	10.0	14.1	16.0	15.2	15.0	12.0	12.8
35–44 years . . . . .	14.3	14.2	16.9	15.4	15.3	15.1	14.5	14.7
45–64 years . . . . .	23.5	22.0	20.6	15.9	15.3	13.9	13.5	14.4
45–54 years . . . . .	20.9	20.7	20.0	15.9	14.8	14.4	14.4	15.2
55–64 years . . . . .	26.8	23.7	21.4	15.9	16.0	13.2	12.1	13.1
65 years and over . . . . .	30.0	24.5	20.8	17.6	20.5	17.9	15.2	15.3
65–74 years . . . . .	29.6	23.0	20.8	16.9	17.9	15.7	12.5	13.3
75–84 years . . . . .	31.1	27.9	21.2	19.1	24.9	20.6	17.6	17.4
85 years and over . . . . .	28.8	26.0	19.0	19.2	22.2	21.3	19.6	17.5
Male								
All ages, age adjusted <sup>3</sup> . . . . .	21.2	20.0	19.8	19.9	21.5	20.3	17.7	18.2
All ages, crude . . . . .	17.8	16.5	16.8	18.6	20.4	19.5	17.1	17.6
Under 1 year . . . . .	...	...	...	...	...	...	...	...
1–4 years . . . . .	...	...	...	...	...	...	...	...
5–14 years . . . . .	0.3	0.4	0.5	0.6	1.1	1.3	1.2	1.0
15–24 years . . . . .	6.5	8.2	13.5	20.2	22.0	22.0	17.1	16.6
15–19 years . . . . .	3.5	5.6	8.8	13.8	18.1	17.1	13.0	12.9
20–24 years . . . . .	9.3	11.5	19.3	26.8	25.7	27.0	21.4	20.5
25–44 years . . . . .	17.2	17.9	20.9	24.0	24.4	24.4	21.3	22.1
25–34 years . . . . .	13.4	14.7	19.8	25.0	24.8	24.8	19.6	21.0
35–44 years . . . . .	21.3	21.0	22.1	22.5	23.9	24.0	22.8	23.1
45–64 years . . . . .	37.1	34.4	30.0	23.7	24.3	22.2	21.3	22.5
45–54 years . . . . .	32.0	31.6	27.9	22.9	23.2	22.5	22.4	23.4
55–64 years . . . . .	43.6	38.1	32.7	24.5	25.7	21.8	19.4	21.1
65 years and over . . . . .	52.8	44.0	38.4	35.0	41.6	36.2	31.1	31.5
65–74 years . . . . .	50.5	39.6	36.0	30.4	32.2	28.5	22.7	24.6
75–84 years . . . . .	58.3	52.5	42.8	42.3	56.1	44.9	38.6	37.8
85 years and over . . . . .	58.3	57.4	42.4	50.6	65.9	62.7	57.5	51.1
Female								
All ages, age adjusted <sup>3</sup> . . . . .	5.6	5.6	7.4	5.7	4.8	4.3	4.0	4.0
All ages, crude . . . . .	5.1	4.9	6.6	5.5	4.8	4.3	4.0	4.1
Under 1 year . . . . .	...	...	...	...	...	...	...	...
1–4 years . . . . .	...	...	...	...	...	...	...	...
5–14 years . . . . .	0.1	0.1	0.2	0.2	0.4	0.4	0.3	0.3
15–24 years . . . . .	2.6	2.2	4.2	4.3	3.9	3.6	3.0	2.9
15–19 years . . . . .	1.8	1.6	2.9	3.0	3.7	3.1	2.7	2.7
20–24 years . . . . .	3.3	2.9	5.7	5.5	4.1	4.2	3.2	3.1
25–44 years . . . . .	6.2	6.6	10.2	7.7	6.2	5.8	5.4	5.5
25–34 years . . . . .	4.9	5.5	8.6	7.1	5.6	5.1	4.3	4.4
35–44 years . . . . .	7.5	7.7	11.9	8.5	6.8	6.4	6.4	6.4
45–64 years . . . . .	9.9	10.2	12.0	8.9	7.1	6.1	6.2	6.6
45–54 years . . . . .	9.9	10.2	12.6	9.4	6.9	6.6	6.7	7.2
55–64 years . . . . .	9.9	10.2	11.4	8.4	7.3	5.3	5.4	5.7
65 years and over . . . . .	9.4	8.4	8.1	6.1	6.4	5.4	4.0	3.9
65–74 years . . . . .	10.1	8.4	9.0	6.5	6.7	5.4	4.0	3.9
75–84 years . . . . .	8.1	8.9	7.0	5.5	6.3	5.4	4.0	4.0
85 years and over . . . . .	8.2	6.0	5.9	5.5	5.4	5.4	4.2	3.4
White male <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	22.3	21.1	20.8	20.9	22.8	21.6	19.1	19.6
All ages, crude . . . . .	19.0	17.6	18.0	19.9	22.0	21.1	18.8	19.5
15–24 years . . . . .	6.6	8.6	13.9	21.4	23.2	23.1	17.9	17.6
25–44 years . . . . .	17.9	18.5	21.5	24.6	25.4	25.8	22.9	24.0
45–64 years . . . . .	39.3	36.5	31.9	25.0	26.0	23.9	23.2	24.7
65 years and over . . . . .	55.8	46.7	41.1	37.2	44.2	38.5	33.3	33.7
65–74 years . . . . .	53.2	42.0	38.7	32.5	34.2	30.1	24.3	26.3
75–84 years . . . . .	61.9	55.7	45.5	45.5	60.2	47.7	41.1	40.2
85 years and over . . . . .	61.9	61.3	45.8	52.8	70.3	67.9	61.6	55.0

See footnotes at end of table.

**Table 46 (page 2 of 3). Death rates for suicide, according to sex, race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1950<sup>1</sup></i>	<i>1960<sup>1</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>2000<sup>2</sup></i>	<i>2001</i>
Deaths per 100,000 resident population								
<b>Black or African American male<sup>4</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	7.5	8.4	10.0	11.4	12.8	12.4	10.0	9.8
All ages, crude . . . . .	6.3	6.4	8.0	10.3	12.0	11.7	9.4	9.2
15–24 years . . . . .	4.9	4.1	10.5	12.3	15.1	17.8	14.2	13.0
25–44 years . . . . .	9.8	12.6	16.1	19.2	19.6	18.3	14.3	14.4
45–64 years . . . . .	12.7	13.0	12.4	11.8	13.1	11.5	9.9	9.7
65 years and over . . . . .	9.0	9.9	8.7	11.4	14.9	14.6	11.5	11.5
65–74 years . . . . .	10.0	11.3	8.7	11.1	14.7	13.8	11.1	10.7
75–84 years <sup>5</sup> . . . . .	*	*	*	10.5	14.4	16.7	12.1	13.5
85 years and over . . . . .	---	*	*	*	*	*	*	*
<b>American Indian or Alaska Native male<sup>4</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	19.3	20.1	17.4	16.0	17.4
All ages, crude . . . . .	---	---	---	20.9	20.9	18.0	15.9	17.0
15–24 years . . . . .	---	---	---	45.3	49.1	30.8	26.2	24.7
25–44 years . . . . .	---	---	---	31.2	27.8	29.1	24.5	27.6
45–64 years . . . . .	---	---	---	*	*	13.6	15.4	17.0
65 years and over . . . . .	---	---	---	*	*	*	*	*
<b>Asian or Pacific Islander male<sup>4</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	10.7	9.6	9.6	8.6	8.4
All ages, crude . . . . .	---	---	---	8.8	8.7	9.0	7.9	7.7
15–24 years . . . . .	---	---	---	10.8	13.5	14.4	9.1	9.1
25–44 years . . . . .	---	---	---	11.0	10.6	10.8	9.9	9.3
45–64 years . . . . .	---	---	---	13.0	9.7	8.7	9.7	8.2
65 years and over . . . . .	---	---	---	18.6	16.8	18.9	15.4	18.3
<b>Hispanic or Latino male<sup>4,6</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	13.7	12.7	10.3	10.1
All ages, crude . . . . .	---	---	---	---	11.4	10.9	8.4	8.3
15–24 years . . . . .	---	---	---	---	14.7	16.0	10.9	9.5
25–44 years . . . . .	---	---	---	---	16.2	14.5	11.2	11.8
45–64 years . . . . .	---	---	---	---	16.1	14.2	12.0	11.4
65 years and over . . . . .	---	---	---	---	23.4	21.0	19.5	18.5
<b>White, not Hispanic or Latino male<sup>6</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	23.5	22.3	20.2	21.0
All ages, crude . . . . .	---	---	---	---	23.1	22.2	20.4	21.4
15–24 years . . . . .	---	---	---	---	24.4	24.0	19.5	19.6
25–44 years . . . . .	---	---	---	---	26.4	27.1	25.1	26.4
45–64 years . . . . .	---	---	---	---	26.8	24.5	24.0	25.9
65 years and over . . . . .	---	---	---	---	45.4	39.0	33.9	34.4
<b>White female<sup>4</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	6.0	5.9	7.9	6.1	5.2	4.7	4.3	4.5
All ages, crude . . . . .	5.5	5.3	7.1	5.9	5.3	4.8	4.4	4.6
15–24 years . . . . .	2.7	2.3	4.2	4.6	4.2	3.8	3.1	3.1
25–44 years . . . . .	6.6	7.0	11.0	8.1	6.6	6.3	6.0	6.2
45–64 years . . . . .	10.6	10.9	13.0	9.6	7.7	6.7	6.9	7.3
65 years and over . . . . .	9.9	8.8	8.5	6.4	6.8	5.7	4.3	4.1
<b>Black or African American female<sup>4</sup></b>								
All ages, age adjusted <sup>3</sup> . . . . .	1.8	2.0	2.9	2.4	2.4	2.0	1.8	1.8
All ages, crude . . . . .	1.5	1.6	2.6	2.2	2.3	2.0	1.7	1.7
15–24 years . . . . .	1.8	*	3.8	2.3	2.3	2.2	2.2	1.3
25–44 years . . . . .	2.3	3.0	4.8	4.3	3.8	3.3	2.6	2.6
45–64 years . . . . .	2.7	3.1	2.9	2.5	2.9	2.0	2.1	2.6
65 years and over . . . . .	*	*	2.6	*	1.9	2.1	1.3	1.6

See footnotes at end of table.

**Table 46 (page 3 of 3). Death rates for suicide, according to sex, race, Hispanic origin, and age: United States, selected years 1950–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1950<sup>1</sup></i>	<i>1960<sup>1</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>2000<sup>2</sup></i>	<i>2001</i>
Deaths per 100,000 resident population								
American Indian or Alaska Native female <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	4.7	3.6	3.9	3.8	4.0
All ages, crude . . . . .	---	---	---	4.7	3.7	3.8	4.0	4.1
15–24 years . . . . .	---	---	---	*	*	*	*	*
25–44 years . . . . .	---	---	---	10.7	*	6.4	7.2	6.1
45–64 years . . . . .	---	---	---	*	*	*	*	*
65 years and over . . . . .	---	---	---	*	*	*	*	*
Asian or Pacific Islander female <sup>4</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	5.5	4.1	4.1	2.8	2.9
All ages, crude . . . . .	---	---	---	4.7	3.4	3.7	2.7	2.8
15–24 years . . . . .	---	---	---	*	3.9	4.8	2.7	3.6
25–44 years . . . . .	---	---	---	5.4	3.8	3.6	3.3	2.9
45–64 years . . . . .	---	---	---	7.9	5.0	4.7	3.2	3.8
65 years and over . . . . .	---	---	---	*	8.5	8.6	5.2	4.9
Hispanic or Latino female <sup>4,6</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	2.3	2.0	1.7	1.6
All ages, crude . . . . .	---	---	---	---	2.2	1.8	1.5	1.5
15–24 years . . . . .	---	---	---	---	3.1	2.4	2.0	2.3
25–44 years . . . . .	---	---	---	---	3.1	2.5	2.1	2.0
45–64 years . . . . .	---	---	---	---	2.5	2.8	2.5	2.3
65 years and over . . . . .	---	---	---	---	*	*	*	*
White, not Hispanic or Latino female <sup>5</sup>								
All ages, age adjusted <sup>3</sup> . . . . .	---	---	---	---	5.4	4.9	4.7	4.9
All ages, crude . . . . .	---	---	---	---	5.6	5.1	4.9	5.0
15–24 years . . . . .	---	---	---	---	4.3	4.0	3.3	3.3
25–44 years . . . . .	---	---	---	---	7.0	6.6	6.7	6.9
45–64 years . . . . .	---	---	---	---	8.0	6.9	7.3	7.8
65 years and over . . . . .	---	---	---	---	7.0	5.8	4.4	4.3

... Category not applicable.

\* Rates based on fewer than 20 deaths are considered unreliable and are not shown.

--- Data not available.

<sup>1</sup>Includes deaths of persons who were not residents of the 50 States and the District of Columbia.

<sup>2</sup>Starting with 1999 data, cause of death is coded according to ICD–10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

<sup>3</sup>Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment.

<sup>4</sup>The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Persons of Hispanic origin may be of any race. Death rates for the American Indian or Alaska Native and Asian or Pacific Islander populations are known to be underestimated. See Appendix II, Race, for a discussion of sources of bias in death rates by race and Hispanic origin.

<sup>5</sup>In 1950 rate is for the age group 75 years and over.

<sup>6</sup>Prior to 1997, excludes data from States lacking an Hispanic-origin item on the death certificate. See Appendix II, Hispanic origin.

NOTES: Population estimates used to compute rates for 1991–2000 differ from those used previously. Starting with *Health, United States, 2003*, rates for 1991–99 were revised using intercensal population estimates based on Census 2000. Rates for 2000 were revised based on Census 2000 counts. Rates for 2001 were computed using 2000-based postcensal estimates. See Appendix I, Population Census and Population Estimates. Figures for 2001 include September 11 related deaths for which death certificates were filed as of October 24, 2002. Underlying cause of death code numbers are based on the applicable revision of the *International Classification of Diseases (ICD)* for data years shown. For the period 1980–98, causes were coded using ICD–9 codes that are most nearly comparable with the 113 cause list for ICD–10. See Appendix II, tables IV and updated V for new terrorism-related ICD–10 codes. Age groups were selected to minimize the presentation of unstable age-specific death rates based on small numbers of deaths and for consistency among comparison groups. For additional injury-related statistics, see [www.cdc.gov/ncipc/wisqars](http://www.cdc.gov/ncipc/wisqars), a Web-based interactive database for injury data. Data for additional years are available. See Appendix III.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System; Grove RD, Hetzel AM. Vital statistics rates in the United States, 1940–1960. Washington: U.S. Government Printing Office. 1968; numerator data from National Vital Statistics System, annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates for 1985–96 prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census; additional mortality tables are available at [www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm](http://www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm); Arias E, Anderson RN, Kung HC, Murphy SL, Kochanek KD. Deaths: Final data for 2001. National vital statistics reports. Vol 52 no 3. Hyattsville, Maryland: National Center for Health Statistics. 2003.



**Table 47 (page 1 of 3). Death rates for firearm-related injuries, according to sex, race, Hispanic origin, and age: United States, selected years 1970–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>2000<sup>1</sup></i>	<i>2001</i>
All persons						
Deaths per 100,000 resident population						
All ages, age adjusted <sup>2</sup> . . . . .	14.3	14.8	14.6	13.4	10.2	10.3
All ages, crude . . . . .	13.1	14.9	14.9	13.5	10.2	10.4
Under 1 year . . . . .	*	*	*	*	*	*
1–14 years . . . . .	1.6	1.4	1.5	1.6	0.7	0.7
1–4 years . . . . .	1.0	0.7	0.6	0.6	0.3	0.5
5–14 years . . . . .	1.7	1.6	1.9	1.9	0.9	0.8
15–24 years . . . . .	15.5	20.6	25.8	26.7	16.8	16.7
15–19 years . . . . .	11.4	14.7	23.3	24.1	12.9	12.4
20–24 years . . . . .	20.3	26.4	28.1	29.2	20.9	21.2
25–44 years . . . . .	20.9	22.5	19.3	16.9	13.1	13.5
25–34 years . . . . .	22.2	24.3	21.8	19.6	14.5	15.5
35–44 years . . . . .	19.6	20.0	16.3	14.3	11.9	11.7
45–64 years . . . . .	17.6	15.2	13.6	11.7	10.0	10.3
45–54 years . . . . .	18.1	16.4	13.9	12.0	10.5	10.5
55–64 years . . . . .	17.0	13.9	13.3	11.3	9.4	10.1
65 years and over . . . . .	13.8	13.5	16.0	14.1	12.2	12.4
65–74 years . . . . .	14.5	13.8	14.4	12.8	10.6	10.9
75–84 years . . . . .	13.4	13.4	19.4	16.3	13.9	14.3
85 years and over . . . . .	10.2	11.6	14.7	14.4	14.2	12.8
Male						
All ages, age adjusted <sup>2</sup> . . . . .	24.8	25.9	26.1	23.8	18.1	18.5
All ages, crude . . . . .	22.2	25.7	26.2	23.6	17.8	18.2
Under 1 year . . . . .	*	*	*	*	*	*
1–14 years . . . . .	2.3	2.0	2.2	2.3	1.1	1.0
1–4 years . . . . .	1.2	0.9	0.7	0.8	0.4	0.5
5–14 years . . . . .	2.7	2.5	2.9	2.9	1.4	1.2
15–24 years . . . . .	26.4	34.8	44.7	46.5	29.4	29.6
15–19 years . . . . .	19.2	24.5	40.1	41.6	22.4	21.8
20–24 years . . . . .	35.1	45.2	49.1	51.5	37.0	37.7
25–44 years . . . . .	34.1	38.1	32.6	28.4	22.0	22.8
25–34 years . . . . .	36.5	41.4	37.0	33.2	24.9	26.7
35–44 years . . . . .	31.6	33.2	27.4	23.6	19.4	19.2
45–64 years . . . . .	31.0	25.9	23.4	20.0	17.1	17.6
45–54 years . . . . .	30.7	27.3	23.2	20.1	17.6	17.8
55–64 years . . . . .	31.3	24.5	23.7	19.8	16.3	17.4
65 years and over . . . . .	29.7	29.7	35.3	30.7	26.4	26.8
65–74 years . . . . .	29.5	27.8	28.2	25.1	20.3	21.1
75–84 years . . . . .	31.0	33.0	46.9	37.8	32.2	32.8
85 years and over . . . . .	26.2	34.9	49.3	47.1	44.7	40.2
Female						
All ages, age adjusted <sup>2</sup> . . . . .	4.8	4.7	4.2	3.8	2.8	2.8
All ages, crude . . . . .	4.4	4.7	4.3	3.8	2.8	2.8
Under 1 year . . . . .	*	*	*	*	*	*
1–14 years . . . . .	0.8	0.7	0.8	0.8	0.3	0.4
1–4 years . . . . .	0.9	0.5	0.5	0.5	*	0.4
5–14 years . . . . .	0.8	0.7	1.0	0.9	0.4	0.4
15–24 years . . . . .	4.8	6.1	6.0	5.9	3.5	3.2
15–19 years . . . . .	3.5	4.6	5.7	5.6	2.9	2.6
20–24 years . . . . .	6.4	7.7	6.3	6.1	4.2	3.8
25–44 years . . . . .	8.3	7.4	6.1	5.5	4.2	4.2
25–34 years . . . . .	8.4	7.5	6.7	5.8	4.0	4.0
35–44 years . . . . .	8.2	7.2	5.4	5.2	4.4	4.3
45–64 years . . . . .	5.4	5.4	4.5	3.9	3.4	3.4
45–54 years . . . . .	6.4	6.2	4.9	4.2	3.6	3.5
55–64 years . . . . .	4.2	4.6	4.0	3.5	3.0	3.3
65 years and over . . . . .	2.4	2.5	3.1	2.8	2.2	2.2
65–74 years . . . . .	2.8	3.1	3.6	3.0	2.5	2.4
75–84 years . . . . .	1.7	1.7	2.9	2.8	2.0	2.2
85 years and over . . . . .	*	1.3	1.3	1.8	1.7	1.3
White male <sup>3</sup>						
All ages, age adjusted <sup>2</sup> . . . . .	19.7	22.1	22.0	20.1	15.9	16.3
All ages, crude . . . . .	17.6	21.8	21.8	19.9	15.6	16.2
1–14 years . . . . .	1.8	1.9	1.9	1.9	1.0	0.9
15–24 years . . . . .	16.9	28.4	29.5	30.8	19.6	19.5
25–44 years . . . . .	24.2	29.5	25.7	23.2	18.0	18.9
25–34 years . . . . .	24.3	31.1	27.8	25.2	18.1	19.9
35–44 years . . . . .	24.1	27.1	23.3	21.2	17.9	18.0
45–64 years . . . . .	27.4	23.3	22.8	19.5	17.4	18.3
65 years and over . . . . .	29.9	30.1	36.8	32.2	28.2	28.6

See footnotes at end of table.

**Table 47 (page 2 of 3). Death rates for firearm-related injuries, according to sex, race, Hispanic origin, and age: United States, selected years 1970–2001**

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>2000<sup>1</sup></i>	<i>2001</i>
Deaths per 100,000 resident population						
<b>Black or African American male<sup>3</sup></b>						
All ages, age adjusted <sup>2</sup> . . . . .	70.8	60.1	56.3	49.2	34.2	34.5
All ages, crude . . . . .	60.8	57.7	61.9	52.9	36.1	36.4
1–14 years . . . . .	5.3	3.0	4.4	4.4	1.8	1.6
15–24 years . . . . .	97.3	77.9	138.0	138.7	89.3	90.3
25–44 years . . . . .	126.2	114.1	90.3	70.2	54.1	54.8
25–34 years . . . . .	145.6	128.4	108.6	92.3	74.8	77.7
35–44 years . . . . .	104.2	92.3	66.1	46.3	34.3	33.2
45–64 years . . . . .	71.1	55.6	34.5	28.3	18.4	17.2
65 years and over . . . . .	30.6	29.7	23.9	21.8	13.8	14.9
<b>American Indian or Alaska Native male<sup>3</sup></b>						
All ages, age adjusted <sup>2</sup> . . . . .	---	24.0	19.4	19.4	13.1	13.0
All ages, crude . . . . .	---	27.5	20.5	20.9	13.2	12.9
15–24 years . . . . .	---	55.3	49.1	40.9	26.9	24.3
25–44 years . . . . .	---	43.9	25.4	31.2	16.6	18.8
45–64 years . . . . .	---	*	*	14.2	12.2	9.6
65 years and over . . . . .	---	*	*	*	*	*
<b>Asian or Pacific Islander male<sup>3</sup></b>						
All ages, age adjusted <sup>2</sup> . . . . .	---	7.8	8.8	9.2	6.0	5.2
All ages, crude . . . . .	---	8.2	9.4	10.0	6.2	5.4
15–24 years . . . . .	---	10.8	21.0	24.3	9.3	9.6
25–44 years . . . . .	---	12.8	10.9	10.6	8.1	6.6
45–64 years . . . . .	---	10.4	8.1	8.2	7.4	5.7
65 years and over . . . . .	---	*	*	*	*	5.3
<b>Hispanic or Latino male<sup>3,4</sup></b>						
All ages, age adjusted <sup>2</sup> . . . . .	---	---	27.6	23.8	13.6	13.7
All ages, crude . . . . .	---	---	29.9	26.2	14.2	14.6
1–14 years . . . . .	---	---	2.6	2.8	1.0	0.7
15–24 years . . . . .	---	---	55.5	61.7	30.8	31.4
25–44 years . . . . .	---	---	42.7	31.4	17.3	19.1
25–34 years . . . . .	---	---	47.3	36.4	20.3	22.7
35–44 years . . . . .	---	---	35.4	24.2	13.2	14.4
45–64 years . . . . .	---	---	21.4	17.2	12.0	10.0
65 years and over . . . . .	---	---	19.1	16.5	12.2	12.0
<b>White, not Hispanic or Latino male<sup>4</sup></b>						
All ages, age adjusted <sup>2</sup> . . . . .	---	---	20.6	18.6	15.5	16.0
All ages, crude . . . . .	---	---	20.4	18.5	15.7	16.3
1–14 years . . . . .	---	---	1.6	1.6	1.0	1.0
15–24 years . . . . .	---	---	24.1	23.5	16.2	16.0
25–44 years . . . . .	---	---	23.3	21.4	17.9	18.6
25–34 years . . . . .	---	---	24.7	22.5	17.2	18.9
35–44 years . . . . .	---	---	21.6	20.4	18.4	18.4
45–64 years . . . . .	---	---	22.7	19.5	17.8	19.0
65 years and over . . . . .	---	---	37.4	32.5	29.0	29.4
<b>White female<sup>3</sup></b>						
All ages, age adjusted <sup>2</sup> . . . . .	4.0	4.2	3.8	3.5	2.7	2.7
All ages, crude . . . . .	3.7	4.1	3.8	3.5	2.7	2.7
15–24 years . . . . .	3.4	5.1	4.8	0.7	0.3	2.7
25–44 years . . . . .	6.9	6.2	5.3	4.5	2.8	3.9
45–64 years . . . . .	5.0	5.1	4.5	4.0	3.5	3.7
65 years and over . . . . .	2.2	2.5	3.1	2.8	2.4	2.3

See footnotes at end of table.

**Table 47 (page 3 of 3). Death rates for firearm-related injuries, according to sex, race, Hispanic origin, and age: United States, selected years 1970–2001**

[Data are based on death certificates]

Sex, race, Hispanic origin, and age	1970	1980	1990	1995	2000 <sup>1</sup>	2001
Deaths per 100,000 resident population						
Black or African American female <sup>3</sup>						
All ages, age adjusted <sup>2</sup> . . . . .	11.1	8.7	7.3	6.2	3.9	3.8
All ages, crude . . . . .	10.0	8.8	7.8	6.5	4.0	3.8
15–24 years . . . . .	15.2	12.3	13.3	13.2	0.5	6.1
25–44 years . . . . .	19.4	16.1	12.4	9.8	7.6	6.9
45–64 years . . . . .	10.2	8.2	4.8	4.1	6.5	2.6
65 years and over . . . . .	4.3	3.1	3.1	2.6	3.1	1.4
American Indian or Alaska Native female <sup>3</sup>						
All ages, age adjusted <sup>2</sup> . . . . .	---	5.8	3.3	3.8	2.9	2.8
All ages, crude . . . . .	---	5.8	3.4	4.1	2.9	2.9
15–24 years . . . . .	---	*	*	*	*	*
25–44 years . . . . .	---	10.2	*	7.0	5.5	5.0
45–64 years . . . . .	---	*	*	*	*	*
65 years and over . . . . .	---	*	*	*	*	*
Asian or Pacific Islander female <sup>3</sup>						
All ages, age adjusted <sup>2</sup> . . . . .	---	2.0	1.9	2.0	1.1	1.0
All ages, crude . . . . .	---	2.1	2.1	2.1	1.2	1.1
15–24 years . . . . .	---	*	*	3.9	*	*
25–44 years . . . . .	---	3.2	2.7	2.7	1.5	1.5
45–64 years . . . . .	---	*	*	*	*	*
65 years and over . . . . .	---	*	*	*	*	*
Hispanic or Latino female <sup>3,4</sup>						
All ages, age adjusted <sup>2</sup> . . . . .	---	---	3.3	3.1	1.8	1.7
All ages, crude . . . . .	---	---	3.6	3.3	1.8	1.7
15–24 years . . . . .	---	---	6.9	6.1	2.9	3.3
25–44 years . . . . .	---	---	5.1	4.7	2.5	2.5
45–64 years . . . . .	---	---	2.4	2.4	2.2	1.6
65 years and over . . . . .	---	---	*	*	*	*
White, not Hispanic or Latino female <sup>4</sup>						
All ages, age adjusted <sup>2</sup> . . . . .	---	---	3.7	3.4	2.8	2.8
All ages, crude . . . . .	---	---	3.7	3.5	2.9	2.9
15–24 years . . . . .	---	---	4.3	4.1	2.7	2.5
25–44 years . . . . .	---	---	5.1	4.8	4.2	4.1
45–64 years . . . . .	---	---	4.6	4.1	3.6	3.8
65 years and over . . . . .	---	---	3.2	2.8	2.4	2.4

\* Rates based on fewer than 20 deaths are considered unreliable and are not shown.

--- Data not available.

<sup>1</sup>Starting with 1999 data, cause of death is coded according to ICD–10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

<sup>2</sup>Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment.

<sup>3</sup>The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Persons of Hispanic origin may be of any race. Death rates for the American Indian or Alaska Native and Asian or Pacific Islander populations are known to be underestimated. See Appendix II, Race, for a discussion of sources of bias in death rates by race and Hispanic origin.

<sup>4</sup>Prior to 1997, excludes data from States lacking an Hispanic-origin item on the death certificate. See Appendix II, Hispanic origin.

NOTES: Population estimates used to compute rates for 1991–2000 differ from those used previously. Starting with *Health, United States, 2003*, rates for 1991–99 were revised using intercensal population estimates based on Census 2000. Rates for 2000 were revised based on Census 2000 counts. Rates for 2001 were computed using 2000-based postcensal estimates. See Appendix I, Population Census and Population Estimates. Underlying cause of death code numbers are based on the applicable revision of the *International Classification of Diseases (ICD)* for data years shown. See Appendix II, tables IV and V. Age groups were selected to minimize the presentation of unstable age-specific death rates based on small numbers of deaths and for consistency among comparison groups. For additional injury-related statistics, see [www.cdc.gov/ncipc/wisqars](http://www.cdc.gov/ncipc/wisqars), a Web-based interactive database for injury data. Data for additional years are available. See Appendix III.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System; numerator data from annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates for 1985–96 prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census; additional mortality tables are available at [www.cdc.gov/nchs/data/statab/unpubd/mortabs.htm](http://www.cdc.gov/nchs/data/statab/unpubd/mortabs.htm); Arias E, Anderson RN, Kung HC, Murphy SL, Kochanek KD. Deaths: Final data for 2001. National vital statistics reports. Vol 52 no 3. Hyattsville, Maryland: National Center for Health Statistics. 2003.

**Table 48. Deaths from selected occupational diseases for persons 15 years of age and over: United States, selected years 1980–2001**

[Data are based on death certificates]

<i>Cause of death</i> <sup>1</sup>	1980	1985	1990	1995	1998	1999 <sup>2</sup>	2000	2001
Underlying and nonunderlying cause of death	Number of mentions							
Angiosarcoma of liver <sup>3</sup>	---	---	---	---	---	4	16	25
Malignant mesothelioma <sup>4</sup>	699	715	874	897	1,064	2,485	2,531	2,508
Pneumoconiosis <sup>5</sup>	4,151	3,783	3,644	3,151	2,790	2,739	2,859	2,743
Coal workers' pneumoconiosis	2,576	2,615	1,990	1,413	1,103	1,002	949	886
Asbestosis	339	534	948	1,169	1,221	1,259	1,486	1,449
Silicosis	448	334	308	242	178	185	151	163
Other (including unspecified)	814	321	413	343	311	310	290	260
Underlying cause of death	Number of deaths							
Angiosarcoma of liver <sup>3</sup>	---	---	---	---	---	3	15	22
Malignant mesothelioma <sup>4</sup>	531	573	725	780	935	2,343	2,384	2,371
Pneumoconiosis	1,581	1,355	1,335	1,117	1,099	1,081	1,142	1,110
Coal workers' pneumoconiosis	982	958	734	533	421	409	389	367
Asbestosis	101	139	302	355	458	449	558	550
Silicosis	207	143	150	114	93	102	71	82
Other (including unspecified)	291	115	149	115	127	121	124	111

--- Data not available.

<sup>1</sup>Cause-of-death titles for selected occupational diseases and corresponding code numbers according to the Ninth and Tenth Revisions, *International Classification of Diseases*. See Appendix II, table IV.

<i>Cause of death</i>	<i>ICD-9 code</i>	<i>ICD-10 code</i>
Angiosarcoma of liver	---	C22.3
Malignant mesothelioma	158.8, 158.9, 163	C45
Pneumoconiosis	500–505	J60–J66
Coal workers' pneumoconiosis	500	J60
Asbestosis	501	J61
Silicosis	502	J62
Other (including unspecified)	503–505	J63–J66

<sup>2</sup>Starting with 1999 data, cause of death is coded according to ICD-10. See Appendix II, *International Classification of Diseases* (ICD). Discontinuities exist between 1998 and 1999 due to ICD-10 coding and classification changes. Caution should be exercised in interpreting trends for these causes, especially for those causes with major ICD-10 changes (e.g., malignant mesothelioma).

<sup>3</sup>Prior to 1999 there was no discrete code for this condition.

<sup>4</sup>Prior to 1999 the combined ICD-9 categories of malignant neoplasm of peritoneum and malignant neoplasm of pleura served as a crude surrogate for malignant mesothelioma under ICD-10.

<sup>5</sup>For underlying and nonunderlying cause of death, counts for pneumoconiosis subgroups may sum to slightly more than total pneumoconiosis due to the reporting of more than one type of pneumoconiosis on some death certificates.

NOTES: See Appendix I, National Vital Statistics System, Multiple Cause of Death File for information about tabulating cause of death data in this table. Selection of occupational diseases is based on definitions in Mullan RJ, Murthy LI. Occupational sentinel health events: An updated list for physician recognition and public health surveillance. *Am J Ind Med* 19:775–799, 1991. For more detailed information about pneumoconiosis deaths, see *Work-Related Lung Disease Surveillance Report 2002*, DHHS (NIOSH) Publication Number 2003–111 at [www.cdc.gov/niosh/docs/2003-111/2003-111.html](http://www.cdc.gov/niosh/docs/2003-111/2003-111.html). Data for additional years are available. See Appendix III.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System; annual mortality files for underlying and multiple cause of death.

**Table 51 (page 1 of 2). Healthy People 2010 Leading Health Indicators: United States, selected years 1990–2002 and 2010 target**

[Data are based on interviews and examinations of samples of the civilian noninstitutionalized population or special population subgroups; information from death certificates and birth certificates; and air quality measurements]

Leading Health Indicators, measures, and Healthy People 2010 objective numbers	1990	1995	1998	1999	2000	2001	2002	2010 Target
<b>Physical activity</b>								
1a. Adolescents in grades 9–12: percent who engaged in 20 minutes or more of vigorous activity 3 or more days per week (obj 22–07) . . . . .	---	64	---	65	---	65	---	85
1b. Adults age 18 years and over: age-adjusted percent who engaged in moderate activity (at least 30 minutes, 5 days per week) or vigorous activity (at least 20 minutes, 3 days per week) (obj 22–02) <sup>1</sup> . . . . .	---	---	30	30	32	32	33	50
<b>Overweight and obesity<sup>2</sup></b>								
2a. Overweight or obese children and adolescents, age 6–19 years: percent who are at or above the sex- and age-specific 95th percentile of Body Mass Index (BMI) based on CDC Growth Charts: United States (obj 19–03c) . . . . .	11	---	---	---	15	---	---	5
2b. Obese adults age 20 years and over: age-adjusted percent with BMI of 30 Kg/m <sup>2</sup> or more (obj 19–02) . . . . .	23	---	---	---	31	---	---	15
<b>Tobacco use</b>								
3a. Adolescents in grades 9–12: percent who smoked cigarettes one or more days in the past 30 days (obj 27–02b) . . . . .	---	35	---	35	---	28	---	16
3b. Adults age 18 years and over: age-adjusted percent who smoked more than 100 cigarettes in their lifetime and now report smoking on some days or every day (obj 27–01a) <sup>1</sup> . . . . .	25	25	24	23	23	23	22	12
<b>Substance abuse<sup>3</sup></b>								
4a. Adolescents age 12–17 years: percent who reported no use of alcohol or illicit drugs in the past 30 days (obj 26–10a) . . . . .	---	---	---	80	80	---	---	89
4b. Adults age 18 years and over: percent who reported illicit drug use in the past 30 days (obj 26–10c) . . . . .	---	---	---	5.8	5.9	6.6	---	2.0
4c. Adults age 18 years and over: percent who reported binge drinking in the past 30 days (obj 26–11c) . . . . .	---	---	---	21	22	22	---	6
<b>Responsible sexual behavior</b>								
5a. Adolescents in grades 9–12: percent who are not sexually active or sexually active and used condoms (obj 25–11) . . . . .	---	83	---	85	---	86	---	95
5a1. Never had intercourse. . . . .	---	47	---	50	---	54	---	...
5a2. Used a condom at last intercourse. . . . .	---	21	---	21	---	19	---	...
5a3. No sexual intercourse in past 3 months . . . . .	---	15	---	14	---	12	---	...
5b. Sexually active unmarried women age 18–44 years: percent who reported condom use by partners (obj 13–06a) . . . . .	---	23	---	---	---	---	---	50
5c. New cases of gonorrhea per 100,000 population (obj 25–02) (supplemental measure) . . . . .	277	149	132	132	129	129	---	19
<b>Mental health</b>								
6a. Adults age 18 years and over: percent with recognized depression who received treatment (obj 18–09b) <sup>4</sup> . . . . .	---	23	---	---	---	---	---	50
6b. Age-adjusted suicide rate per 100,000 standard population (obj 18–01) (supplemental measure) . . . . .	12.5	11.8	11.1	10.5	10.4	10.7	---	5.0
<b>Injury and violence</b>								
7a. Age-adjusted death rate for motor vehicle traffic-related injuries per 100,000 standard population (obj 15–15a) <sup>5</sup> . . . . .	18.0	15.9	15.3	14.7	14.9	14.9	---	9.2
7b. Age-adjusted homicide rate per 100,000 standard population (obj 15–32) . . . . .	9.4	8.3	6.4	6.0	5.9	7.1	---	3.0

See footnotes at end of table.

**Table 51 (page 2 of 2). Healthy People 2010 Leading Health Indicators: United States, selected years 1990–2002 and 2010 target**

[Data are based on interviews and examinations of samples of the civilian noninstitutionalized population or special population subgroups; information from death certificates and birth certificates; and air quality measurements]

Leading Health Indicators, measures, and Healthy People 2010 objective numbers	1990	1995	1998	1999	2000	2001	2002	2010 Target
<b>Environmental quality</b>								
8a. Percent of population exposed to ozone above EPA standard (obj 08–01a) . . . . .	---	---	43	43	43	41	---	0
8b. Persons age 4 years and over: age-adjusted percent of nonsmokers exposed to environmental tobacco smoke (obj 27–10) <sup>2</sup> . . . . .	88.1	---	---	---	53.9	---	---	45
8c. Persons under age 18 years: hospital admissions for asthma per 10,000 population (obj 01–09a) (supplemental measure) . . . . .	---	---	---	25.5	---	21.4	---	17.3
<b>Immunization</b>								
9a. Children age 19–35 months: percent who received all DTaP, polio, MMR, Hib, and HepB vaccines (obj 14–24a) . . . . .	---	---	73	73	73	74	75	80
9b. Adults age 65 years and over: age-adjusted percent who received influenza vaccine in the past 12 months (obj 14–29a) <sup>1</sup> . . . . .	---	59	64	66	65	63	66	90
9c. Adults age 65 years and over: age-adjusted percent who ever received pneumococcal vaccine (obj 14–29b) <sup>1</sup> . . . . .	---	35	46	50	53	54	55	90
<b>Access to health care</b>								
10a. Persons under age 65 years: age-adjusted percent with health insurance (obj 01–01) <sup>1,6</sup> . . . . .	---	84	83	84	83	84	84	100
10b. Persons of all ages: age-adjusted percent with a specific source of ongoing primary care (obj 01–04a) <sup>1</sup> . . . . .	---	87	87	86	87	88	88	96
10c. Pregnant women: percent who received prenatal care in the first trimester (obj 16–06a) . . . . .	76	81	83	83	83	83	---	90

--- Data not available.

... Data not applicable.

<sup>1</sup>Data for 1997 and later years are not strictly comparable with data for earlier years due to the 1997 questionnaire redesign. See Appendix I, NHIS. Data for 2002 are provisional.

<sup>2</sup>NHANES data for 1990 are for the period 1988–94. NHANES data for 2000 are for the period 1999–2000, and are based on a smaller sample size and therefore are subject to greater sampling error than the estimate for 1988–94.

<sup>3</sup>In a major redesign of the survey in 1999, the sample size, mode of administration, and survey content changed. Data are not shown for 1998 and earlier years because only limited comparisons can be made between data from the redesigned surveys (1999 onward) and data obtained from surveys prior to 1999. See Appendix I, NHSDA.

<sup>4</sup>Baseline year 1997 and baseline value 23 percent are shown in 1995.

<sup>5</sup>Population estimates used to compute rates for 1991–2000 differ from those used previously. Starting with *Health, United States, 2003*, rates for 1991–99 were revised using intercensal population estimates based on Census 2000. Rates for 2000 were revised based on Census 2000 counts. Rates for 2001 were computed using 2000-based postcensal estimates. See Appendix I, Population Census and Population Estimates.

<sup>6</sup>Figures for 2001 include September 11 related deaths for which death certificates were filed as of October 24, 2002. See updated Appendix II table V for new terrorism-related ICD–10 codes.

<sup>7</sup>Motor vehicle traffic-related injuries (ICD–9-E810-E819 prior to 1999; and for 1999 and later years ICD–10-V02-V04(.1–.9), V09.2, V12-V14(.3–.9), V19(.4–.6), V20-V28(.3–.9), V29(.4–.9), V30-V39(.4–.9), V40-V49(.4–.9), V50-V59(.4–.9), V60-V69(.4–.9), V70-V79(.4–.9), V80(.3–.5), V81.1, V82.1, V83-V86(.0–.3), V87(.0–.8), V89.2) are a subset of data in tables 29 and 44 for motor vehicle-related injuries. (For ICD–10 codes, parenthetical digits apply to each preceding alphanumeric in the range.)

<sup>8</sup>See Appendix II, Health insurance coverage, for a discussion of changes in measurement of this variable.

NOTES: Additional information on specific measures is presented in the following tables: measure 3b (table 59); measure 5c (table 52); measure 6b (table 46); measures 7b (table 45); measure 10a (table 130); measure 10c (table 6). Additional information related to other measures is presented in the following tables: measure 2a (table 69); measure 2b (table 68); measures 4a and 4c (table 62); measure 5b (table 17); measure 7a (table 44); measure 9a (tables 71 and 72); measure 10b (tables 74 and 76). Current data for Healthy People 2010 objectives can be obtained from the DATA2010 Web site: [wonder.cdc.gov/data2010](http://wonder.cdc.gov/data2010). Data for additional years are available. See Appendix III.

SOURCES: Youth Risk Behavior Surveillance System (YRBSS), CDC, NCCDPHP: measures 1a, 3a, and 5a; National Health Interview Survey (NHIS), CDC, NCHS: measures 1b, 3b, 9b, 9c, 10a, and 10b; National Health and Nutrition Examination Survey (NHANES), CDC, NCHS: measures 2a, 2b, and 8b; National Household Survey on Drug Abuse (NHSDA), SAMHSA: measures 4a, 4b, 4c, and 6a; National Survey of Family Growth (NSFG), CDC, NCHS: measure 5b; Sexually Transmitted Diseases (STD) Surveillance System, CDC, NCHSTP: measure 5c; National Vital Statistics System (NVSS), CDC, NCHS: measures 6b, 7a, 7b, 10c; Aerometric Information Retrieval System (AIRS), EPA, OAR: measure 8a; Healthcare Cost and Utilization Project (HCUP), AHRQ: measure 8c; National Immunization Survey (NIS), CDC, NIP and NCHS: measure 9a.



**Table 54 (page 1 of 3). Age-adjusted cancer incidence rates for selected cancer sites, according to sex, race, and Hispanic origin: Selected geographic areas, 1990–2000**

[Data are based on the Surveillance, Epidemiology, and End Results (SEER) Program's 12 population-based cancer registries]

Site, sex, race, and Hispanic origin	1990	1994	1995	1996	1997	1998	1999	2000	1990–2000 EAPC <sup>1</sup>
All sites									
Number of new cases per 100,000 population <sup>2</sup>									
All persons . . . . .	477.2	475.8	470.9	471.9	476.9	476.9	474.5	461.6	^0.5
White . . . . .	484.4	480.8	476.8	478.3	483.6	485.1	482.6	469.7	^0.5
Black or African American . . . . .	515.7	540.7	532.6	528.0	531.8	521.6	522.1	506.2	–0.5
American Indian or Alaska Native . . . . .	262.9	261.1	271.1	250.3	269.5	244.8	243.4	197.0	^2.1
Asian or Pacific Islander . . . . .	337.2	347.2	340.5	336.8	348.1	341.0	343.1	339.2	–0.2
Hispanic or Latino . . . . .	342.2	358.4	358.6	353.9	348.1	360.4	356.6	342.1	–0.1
White, not Hispanic or Latino . . . . .	492.2	489.1	486.1	489.3	494.5	492.3	493.2	480.1	^0.4
Male . . . . .	584.3	578.2	561.7	559.6	561.3	556.4	557.3	544.6	^1.4
White . . . . .	590.6	576.9	560.1	560.4	560.1	557.1	557.5	544.7	^1.5
Black or African American . . . . .	689.1	741.5	727.1	704.9	713.0	696.7	693.2	677.3	^1.0
American Indian or Alaska Native . . . . .	311.1	305.5	322.8	269.6	311.9	252.3	277.4	193.0	^3.5
Asian or Pacific Islander . . . . .	388.5	412.4	397.4	387.9	399.5	383.8	394.0	394.5	–0.6
Hispanic or Latino . . . . .	404.0	441.0	436.8	427.6	416.4	424.3	422.3	406.8	–0.5
White, not Hispanic or Latino . . . . .	599.0	582.0	566.1	567.4	566.4	558.8	563.2	550.9	^1.5
Female . . . . .	414.0	409.4	412.3	415.3	422.3	426.0	420.2	406.2	0.1
White . . . . .	423.9	420.1	424.8	426.8	435.9	440.7	434.7	421.0	0.2
Black or African American . . . . .	406.5	409.4	402.5	411.7	412.0	407.9	409.4	391.5	–0.1
American Indian or Alaska Native . . . . .	230.7	229.6	237.8	240.0	241.3	241.4	222.3	205.9	–0.7
Asian or Pacific Islander . . . . .	297.1	298.3	299.0	300.3	312.0	312.4	308.7	301.1	^0.4
Hispanic or Latino . . . . .	308.9	309.3	311.3	310.0	306.6	322.0	317.7	304.9	0.2
White, not Hispanic or Latino . . . . .	430.7	430.0	435.8	440.0	449.6	451.4	448.4	433.2	^0.4
Lung and bronchus									
Male . . . . .	95.4	87.4	87.0	84.3	82.6	82.9	79.2	75.3	^2.2
White . . . . .	94.6	86.8	85.2	82.8	80.9	81.9	77.8	73.8	^2.2
Black or African American . . . . .	134.8	122.7	136.7	128.7	125.8	122.8	117.6	108.1	^2.2
Asian or Pacific Islander . . . . .	64.4	60.6	60.4	61.2	62.6	61.2	62.1	63.1	–0.6
Hispanic or Latino . . . . .	58.6	49.9	52.1	47.9	46.6	49.9	43.0	43.5	^2.4
White, not Hispanic or Latino . . . . .	95.2	87.5	85.6	84.3	81.7	82.8	79.3	74.8	^2.1
Female . . . . .	47.4	49.1	49.3	50.2	50.3	50.8	49.8	47.2	0.2
White . . . . .	48.7	50.7	51.7	52.4	52.9	53.0	51.8	49.2	0.4
Black or African American . . . . .	53.4	55.8	50.4	54.2	50.7	57.1	58.1	53.6	0.4
Asian or Pacific Islander . . . . .	28.4	29.3	27.8	27.9	29.7	28.4	28.8	27.4	0.1
Hispanic or Latino . . . . .	24.8	22.5	24.2	25.4	25.2	25.6	23.6	22.6	–0.7
White, not Hispanic or Latino . . . . .	49.8	52.6	54.0	54.6	55.3	54.7	54.3	50.9	0.6
Colon and rectum									
Male . . . . .	72.4	65.5	63.0	64.5	66.2	65.6	63.4	61.6	^1.3
White . . . . .	73.1	65.5	62.5	64.8	66.0	65.4	63.4	61.0	^1.4
Black or African American . . . . .	73.1	72.7	73.0	67.5	73.7	76.1	72.9	71.4	–0.5
Asian or Pacific Islander . . . . .	61.4	58.1	58.3	56.8	59.7	57.6	54.5	57.6	^0.6
Hispanic or Latino . . . . .	45.6	46.8	45.4	50.5	50.1	51.3	49.5	48.1	0.6
White, not Hispanic or Latino . . . . .	74.4	66.2	63.0	65.1	65.6	65.8	64.8	61.9	^1.4
Female . . . . .	50.3	46.5	45.9	45.9	47.1	48.5	46.6	45.3	^0.7
White . . . . .	49.8	45.9	45.5	45.6	47.0	48.1	45.8	44.8	^0.7
Black or African American . . . . .	61.1	56.9	54.8	53.8	57.5	55.9	57.0	56.5	–0.4
Asian or Pacific Islander . . . . .	38.3	39.0	38.6	39.4	35.6	41.0	40.6	37.4	–0.5
Hispanic or Latino . . . . .	32.4	33.4	32.7	32.2	31.9	33.5	33.9	32.7	0.4
White, not Hispanic or Latino . . . . .	50.8	47.0	46.0	46.8	48.3	49.4	46.9	46.1	^0.6
Prostate									
Male . . . . .	166.6	176.9	165.3	165.0	169.9	166.7	176.5	172.0	–2.1
White . . . . .	168.0	170.1	159.7	160.2	164.6	160.3	170.5	165.8	^2.5
Black or African American . . . . .	218.8	298.3	271.2	266.5	269.5	273.0	274.6	275.9	–0.5
American Indian or Alaska Native . . . . .	84.0	59.1	66.0	75.4	71.4	50.6	52.5	24.2	^7.8
Asian or Pacific Islander . . . . .	89.5	112.6	104.0	94.4	97.7	94.2	106.0	106.6	–1.0
Hispanic or Latino . . . . .	114.8	147.8	137.4	133.4	136.2	138.1	140.4	137.2	0.0
White, not Hispanic or Latino . . . . .	169.6	169.1	159.9	160.5	164.7	157.1	169.3	165.0	^2.7
Breast									
Female . . . . .	129.3	128.5	130.5	131.7	135.2	138.1	137.0	132.9	^0.6
White . . . . .	134.3	134.1	136.0	136.7	140.8	144.1	143.3	139.1	^0.7
Black or African American . . . . .	116.7	121.1	122.3	122.2	123.1	121.4	122.1	119.8	^0.4
American Indian or Alaska Native . . . . .	46.8	59.3	63.6	75.8	57.1	55.7	52.0	52.2	–0.7
Asian or Pacific Islander . . . . .	87.1	80.9	87.5	90.5	99.5	101.1	99.7	94.7	^1.9
Hispanic or Latino . . . . .	84.5	85.9	88.6	89.8	84.7	91.0	91.2	92.0	^0.9
White, not Hispanic or Latino . . . . .	138.6	140.6	142.0	144.0	148.2	151.4	151.7	146.3	^0.9

See footnotes at end of table.



**Table 54 (page 2 of 3). Age-adjusted cancer incidence rates for selected cancer sites, according to sex, race, and Hispanic origin: Selected geographic areas, 1990–2000**

[Data are based on the Surveillance, Epidemiology, and End Results (SEER) Program's 12 population-based cancer registries]

Site, sex, race, and Hispanic origin	1990	1994	1995	1996	1997	1998	1999	2000	1990–2000 EAPC <sup>1</sup>
Cervix uteri									
Number of new cases per 100,000 population <sup>2</sup>									
Female. . . . .	11.9	10.5	9.9	10.6	9.8	9.8	9.2	8.7	^2.4
White . . . . .	11.2	9.9	9.2	9.9	9.2	9.3	9.0	8.7	^2.2
Black or African American . . . . .	16.2	13.5	14.3	13.6	13.0	12.4	12.7	10.6	^3.1
Asian or Pacific Islander . . . . .	12.1	14.4	11.0	12.9	11.1	10.9	8.3	8.2	^3.4
Hispanic or Latino . . . . .	21.1	20.0	18.0	18.3	16.0	15.7	17.1	16.9	^2.7
White, not Hispanic or Latino . . . . .	9.5	8.2	7.7	8.3	7.8	7.9	7.4	6.7	^2.4
Corpus uteri									
Female. . . . .	24.7	24.4	24.9	24.4	25.3	24.9	24.5	23.5	−0.1
White . . . . .	26.4	25.8	26.3	25.8	26.9	26.5	26.0	25.2	−0.1
Black or African American . . . . .	17.0	17.9	17.9	19.1	17.9	18.2	17.8	16.6	0.5
Asian or Pacific Islander . . . . .	13.2	15.8	17.9	16.6	17.8	17.1	17.5	16.5	^1.9
Hispanic or Latino . . . . .	16.2	15.7	16.7	15.8	17.1	18.1	16.6	15.1	0.2
White, not Hispanic or Latino . . . . .	27.0	27.2	27.4	27.0	27.8	27.3	26.8	26.2	0.0
Ovary									
Female. . . . .	17.9	16.9	17.3	16.8	16.9	16.8	16.9	16.3	^0.8
White . . . . .	18.9	17.8	18.4	18.1	18.0	17.9	18.1	17.5	^0.7
Black or African American . . . . .	12.9	13.9	12.6	10.9	12.0	12.6	12.2	12.0	−0.4
Asian or Pacific Islander . . . . .	12.8	11.7	12.4	11.8	13.2	12.1	12.6	11.7	−0.3
Hispanic or Latino . . . . .	14.4	14.0	13.9	14.5	13.5	15.5	13.3	13.5	−0.5
White, not Hispanic or Latino . . . . .	19.6	18.4	18.8	18.5	18.4	17.9	18.7	17.9	^0.8
Oral cavity and pharynx									
Male . . . . .	19.1	17.7	16.9	17.4	16.9	16.4	15.2	15.5	^2.1
White . . . . .	18.7	17.2	16.8	17.0	16.7	16.2	15.0	15.3	^2.1
Black or African American . . . . .	26.1	24.0	22.4	23.3	19.8	21.5	19.3	19.0	^2.6
Asian or Pacific Islander . . . . .	15.2	14.2	11.9	14.3	14.7	13.1	11.0	13.3	−1.2
Hispanic or Latino . . . . .	11.0	11.4	12.8	11.1	10.3	10.1	9.9	8.4	^2.3
White, not Hispanic or Latino . . . . .	19.2	17.8	16.7	17.4	17.3	16.6	15.8	15.9	^2.0
Female. . . . .	7.3	6.8	7.0	6.9	6.9	6.6	6.2	6.1	^1.6
White . . . . .	7.4	6.8	7.0	6.8	6.8	6.7	6.1	6.1	^1.7
Black or African American . . . . .	6.3	7.1	6.7	7.3	7.1	6.5	5.9	5.3	−1.4
Asian or Pacific Islander . . . . .	6.1	5.6	5.2	5.7	6.5	4.5	6.4	5.9	−0.7
Hispanic or Latino . . . . .	3.6	4.7	3.8	3.7	3.8	3.4	4.5	3.7	−0.1
White, not Hispanic or Latino . . . . .	7.7	7.0	7.3	7.3	7.2	7.2	6.2	6.3	^1.7
Stomach									
Male . . . . .	14.7	14.3	13.6	13.8	13.4	12.8	12.8	12.5	^1.8
White . . . . .	12.9	12.4	12.0	11.9	11.3	11.0	11.1	10.5	^1.9
Black or African American . . . . .	21.9	23.3	18.5	22.5	21.9	20.4	16.7	18.5	^2.1
Asian or Pacific Islander . . . . .	26.9	24.5	24.0	23.8	24.7	21.2	22.7	22.7	^2.3
Hispanic or Latino . . . . .	19.7	22.6	19.4	17.2	19.0	19.1	19.4	15.8	−1.5
White, not Hispanic or Latino . . . . .	12.0	11.2	10.9	11.1	10.1	9.7	9.7	9.7	^2.3
Female. . . . .	6.7	6.2	6.2	6.1	6.2	6.4	6.5	6.0	^0.9
White . . . . .	5.7	5.0	5.2	5.1	4.9	5.2	5.4	4.9	^1.4
Black or African American . . . . .	9.9	10.1	9.9	9.3	11.0	10.9	10.1	8.3	−0.4
Asian or Pacific Islander . . . . .	15.5	15.1	13.1	13.7	12.3	12.8	12.3	13.1	^2.4
Hispanic or Latino . . . . .	10.8	8.6	11.1	10.0	10.1	10.7	9.3	10.0	−1.0
White, not Hispanic or Latino . . . . .	5.0	4.4	4.4	4.3	4.1	4.3	4.7	4.0	^2.0
Pancreas									
Male . . . . .	13.1	13.0	12.7	12.6	12.9	12.9	12.4	12.3	−0.4
White . . . . .	12.7	12.4	12.4	12.3	12.5	12.9	12.2	12.0	−0.3
Black or African American . . . . .	19.7	19.1	18.9	19.1	18.2	17.1	18.1	17.7	−0.7
Asian or Pacific Islander . . . . .	11.2	14.2	10.5	10.6	12.2	10.3	9.1	10.7	−1.3
Hispanic or Latino . . . . .	10.9	10.0	12.4	11.2	11.9	9.7	9.3	11.0	−0.2
White, not Hispanic or Latino . . . . .	12.4	12.6	12.1	12.1	12.5	13.0	12.6	12.0	0.0
Female. . . . .	10.1	9.9	10.0	10.0	10.1	10.0	9.5	9.4	^0.5
White . . . . .	9.8	9.7	9.6	9.7	9.6	9.8	9.3	9.2	^0.5
Black or African American . . . . .	13.0	15.1	15.7	15.1	16.9	13.8	13.3	12.3	−1.3
Asian or Pacific Islander . . . . .	10.1	6.9	8.1	7.9	8.4	8.6	8.5	9.1	0.4
Hispanic or Latino . . . . .	9.7	9.6	8.7	9.0	9.6	9.6	9.8	8.5	−0.6
White, not Hispanic or Latino . . . . .	9.6	9.4	9.6	9.7	9.3	9.7	8.9	9.1	^0.5

See footnotes at end of table.

**Table 54 (page 3 of 3). Age-adjusted cancer incidence rates for selected cancer sites, according to sex, race, and Hispanic origin: Selected geographic areas, 1990–2000**

[Data are based on the Surveillance, Epidemiology, and End Results (SEER) Program's 12 population-based cancer registries]

Site, sex, race, and Hispanic origin	1990	1994	1995	1996	1997	1998	1999	2000	1990–2000 EAPC <sup>1</sup>
Urinary bladder									
Number of new cases per 100,000 population <sup>2</sup>									
Male . . . . .	37.2	36.0	35.2	35.6	35.7	36.6	36.1	36.1	^–0.3
White . . . . .	40.6	39.5	38.6	39.1	39.3	40.3	39.6	39.7	–0.3
Black or African American . . . . .	19.8	19.4	19.5	19.3	20.8	20.3	22.1	19.5	0.0
Asian or Pacific Islander . . . . .	15.7	16.2	16.6	16.1	15.4	16.5	17.0	17.3	1.1
Hispanic or Latino . . . . .	21.6	20.9	18.4	18.3	17.7	18.1	18.0	19.3	–1.0
White, not Hispanic or Latino . . . . .	41.7	40.2	39.7	40.6	40.7	41.4	41.0	40.6	–0.3
Female . . . . .	9.5	9.1	9.3	9.0	9.3	9.0	9.3	8.9	^–0.4
White . . . . .	9.9	9.8	10.0	9.8	9.9	9.7	9.9	9.7	–0.2
Black or African American . . . . .	8.6	7.1	7.4	7.2	8.1	6.6	8.5	7.7	–0.6
Asian or Pacific Islander . . . . .	5.3	3.9	4.6	3.9	5.3	4.8	4.2	4.3	–0.3
Hispanic or Latino . . . . .	5.3	5.3	5.2	5.3	5.1	4.5	4.2	5.3	–1.1
White, not Hispanic or Latino . . . . .	10.1	9.9	10.4	10.0	10.5	10.2	10.4	9.9	–0.1
Non-Hodgkin's lymphoma									
Male . . . . .	22.7	24.7	25.0	24.6	23.8	22.7	23.7	22.6	0.0
White . . . . .	23.7	25.7	26.1	25.7	24.6	23.8	24.7	23.9	0.0
Black or African American . . . . .	17.8	20.3	21.3	18.9	22.9	17.0	17.8	16.4	–0.2
Asian or Pacific Islander . . . . .	16.5	18.2	16.5	16.8	16.4	15.6	19.1	16.1	0.4
Hispanic or Latino . . . . .	17.0	18.6	21.5	21.5	17.8	19.6	17.2	19.0	0.2
White, not Hispanic or Latino . . . . .	24.5	26.6	26.9	26.4	25.0	24.5	25.7	24.0	–0.2
Female . . . . .	14.5	15.3	15.1	15.1	15.9	16.0	15.8	15.3	^0.9
White . . . . .	15.4	16.1	15.8	15.8	16.6	16.8	16.8	16.0	^0.9
Black or African American . . . . .	10.4	8.7	10.0	11.4	11.9	12.4	10.6	11.5	^2.0
Asian or Pacific Islander . . . . .	9.2	12.4	11.9	9.5	11.1	11.3	11.2	11.4	1.4
Hispanic or Latino . . . . .	13.2	13.7	12.4	13.5	14.0	13.2	13.3	12.4	0.5
White, not Hispanic or Latino . . . . .	15.4	16.2	16.1	15.9	16.8	17.1	17.0	16.1	^0.9
Leukemia									
Male . . . . .	17.0	16.3	17.3	16.2	16.4	16.3	15.5	14.6	^–1.1
White . . . . .	17.8	17.3	18.6	17.0	17.6	17.2	16.3	15.4	^–1.1
Black or African American . . . . .	15.4	11.6	12.7	13.5	13.3	13.2	12.7	12.5	–1.1
Asian or Pacific Islander . . . . .	8.6	10.3	9.9	11.2	9.0	9.9	10.7	9.5	0.3
Hispanic or Latino . . . . .	11.4	10.4	15.3	12.2	11.8	11.6	10.7	11.8	0.0
White, not Hispanic or Latino . . . . .	17.7	17.6	18.9	17.0	17.7	17.3	16.4	15.2	^–1.1
Female . . . . .	9.7	9.7	9.9	9.7	9.5	9.5	8.7	9.2	^–0.9
White . . . . .	10.1	10.1	10.5	10.2	10.2	10.1	9.2	9.7	–0.7
Black or African American . . . . .	8.3	7.7	8.0	8.1	7.7	7.4	7.3	8.6	–1.4
Asian or Pacific Islander . . . . .	6.0	7.0	6.4	6.6	5.7	6.7	6.3	5.9	–0.5
Hispanic or Latino . . . . .	8.3	8.2	8.2	7.1	8.1	8.0	7.4	7.2	–0.6
White, not Hispanic or Latino . . . . .	10.0	9.8	10.3	10.1	10.1	9.8	9.0	9.2	^–0.9

^ Estimated annual percent change (EAPC) is significantly different from 0 ( $p < 0.05$ ).

<sup>1</sup>EAPC has been calculated by fitting a linear regression model to the natural logarithm of the yearly rates from 1990–2000.

<sup>2</sup>Age adjusted by 5-year age groups to the year 2000 U.S. standard population. See Appendix II, Age adjustment.

NOTES: Estimates are based on 12 SEER areas November 2002 submission and differ from published estimates based on 9 SEER areas or other submission dates. Estimates for Hispanic population exclude data from Alaska, Detroit, and Hawaii. See Appendix I, SEER. Numbers have been revised and differ from previous editions of *Health, United States*. The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Conversely, persons of Hispanic origin may be of any race. Estimates for American Indian or Alaska Native are not shown for some sites because of the small number of annual cases.

SOURCE: National Institutes of Health, National Cancer Institute, Surveillance, Epidemiology, and End Results (SEER) Program at [www.seer.cancer.gov](http://www.seer.cancer.gov).

**Table 62 (page 1 of 2). Use of selected substances in the past month by persons 12 years of age and over, according to age, sex, race, and Hispanic origin: United States, selected years 2000–2002**

[Data are based on household interviews of a sample of the civilian noninstitutionalized population 12 years of age and over]

Age, sex, race, and Hispanic origin	Any illicit drug <sup>1</sup>			Marijuana			Nonmedical use of any psychotherapeutic drug <sup>2</sup>		
	2000	2001	2002	2000	2001	2002	2000	2001	2002
Percent of population									
12 years and over . . . . .	6.3	7.1	8.3	4.8	5.4	6.2	1.7	2.1	2.6
Age									
12–13 years . . . . .	3.0	3.8	4.2	1.1	1.5	1.4	1.6	1.8	1.7
14–15 years . . . . .	9.8	10.9	11.2	6.9	7.6	7.6	3.0	3.5	4.0
16–17 years . . . . .	16.4	17.8	19.8	13.7	14.9	15.7	4.3	4.4	6.2
18–25 years . . . . .	15.9	18.8	20.2	13.6	16.0	17.3	3.6	4.8	5.4
26–34 years . . . . .	7.8	8.8	10.5	5.9	6.8	7.7	2.1	2.4	3.6
35 years and over . . . . .	3.3	3.5	4.6	2.3	2.4	3.1	1.0	1.3	1.6
Sex									
Male . . . . .	7.7	8.7	10.3	6.2	7.0	8.1	1.8	2.2	2.7
Female . . . . .	5.0	5.5	6.4	3.5	3.8	4.4	1.7	2.0	2.6
Age and sex									
12–17 years . . . . .	9.7	10.8	11.6	7.2	8.0	8.2	3.0	3.2	4.0
Male . . . . .	9.8	11.4	12.3	7.7	8.9	9.1	2.7	2.7	3.6
Female . . . . .	9.5	10.2	10.9	6.6	7.1	7.2	3.3	3.8	4.3
Hispanic origin and race <sup>3</sup>									
Not Hispanic or Latino:									
White only . . . . .	6.4	7.2	8.5	4.9	5.6	6.5	1.8	2.3	2.8
Black or African American only . . . . .	6.4	7.4	9.7	5.2	5.6	7.4	1.2	1.6	2.0
American Indian and Alaska Native only . . . . .	12.6	9.9	10.1	10.1	8.0	6.7	3.9	2.3	3.2
Native Hawaiian and Other Pacific Islander only . . . . .	6.2	7.5	7.9	2.5	7.1	4.4	3.5	1.1	3.8
Asian only . . . . .	2.7	2.8	3.5	1.4	1.7	1.8	1.1	0.8	0.7
2 or more races . . . . .	14.8	12.6	11.4	12.5	9.6	9.0	2.3	5.3	3.5
Hispanic or Latino . . . . .	5.3	6.4	7.2	3.6	4.2	4.3	1.7	1.9	2.9
Percent of population									
12 years and over . . . . .	46.6	48.3	51.0	20.6	20.5	22.9	5.6	5.7	6.7
Age									
12–13 years . . . . .	4.6	4.4	4.3	2.0	1.9	1.8	0.2	0.2	0.3
14–15 years . . . . .	15.7	16.6	16.6	9.3	9.2	9.2	1.8	1.7	1.9
16–17 years . . . . .	29.1	30.8	32.6	20.3	20.8	21.4	6.0	5.7	5.6
18–25 years . . . . .	56.8	58.8	60.5	37.8	38.7	40.9	12.8	13.6	14.9
26–34 years . . . . .	58.3	59.9	61.4	30.3	30.1	33.1	7.6	7.8	9.0
35 years and over . . . . .	46.8	48.7	52.1	16.4	16.2	18.6	4.1	4.2	5.2
Sex									
Male . . . . .	53.6	54.8	57.4	28.3	28.2	31.2	8.7	9.2	10.8
Female . . . . .	40.2	42.3	44.9	13.5	13.4	15.1	2.7	2.6	3.0
Age and sex									
12–17 years . . . . .	16.4	17.3	17.6	10.4	10.6	10.7	2.6	2.5	2.5
Male . . . . .	16.2	17.2	17.4	11.2	11.2	11.4	3.2	3.1	3.1
Female . . . . .	16.5	17.3	17.9	9.6	9.9	9.9	2.0	1.9	1.9
Hispanic origin and race <sup>3</sup>									
Not Hispanic or Latino:									
White only . . . . .	50.7	52.7	55.0	21.2	21.5	23.4	6.2	6.4	7.5
Black or African American only . . . . .	33.7	35.1	39.9	17.7	16.8	21.0	4.0	4.1	4.4
American Indian and Alaska Native only . . . . .	35.1	35.0	44.7	26.2	21.8	27.9	7.2	7.1	8.7
Native Hawaiian and Other Pacific Islander only . . . . .	*	*	*	*	17.0	25.2	*	4.0	8.3
Asian only . . . . .	28.0	31.9	37.1	11.6	10.1	12.4	1.4	1.5	2.6
2 or more races . . . . .	41.6	43.2	49.9	17.5	19.4	19.8	5.2	6.7	7.5
Hispanic or Latino . . . . .	39.8	39.5	42.8	22.7	21.3	24.8	4.4	4.4	5.9

See footnotes at end of table.

**Table 62 (page 2 of 2). Use of selected substances in the past month by persons 12 years of age and over, according to age, sex, race, and Hispanic origin: United States, selected years 2000–2002**

[Data are based on household interviews of a sample of the civilian noninstitutionalized population 12 years of age and over]

Age, sex, race, and Hispanic origin	Any tobacco <sup>6</sup>			Cigarettes			Cigars		
	2000	2001	2002	2000	2001	2002	2000	2001	2002
Percent of population									
12 years and over . . . . .	29.3	29.5	30.4	24.9	24.9	26.0	4.8	5.4	5.4
Age									
12–13 years. . . . .	4.0	3.9	3.8	3.4	3.2	3.2	0.8	1.0	0.7
14–15 years. . . . .	14.2	13.4	13.4	12.1	11.4	11.2	4.3	3.7	3.8
16–17 years. . . . .	28.9	28.1	29.0	25.2	24.4	24.9	8.6	8.1	9.3
18–25 years. . . . .	42.9	43.9	45.3	38.3	39.1	40.8	10.4	10.4	11.0
26–34 years. . . . .	35.6	36.2	38.2	29.7	30.5	32.7	5.7	5.9	5.3
35 years and over . . . . .	27.3	27.3	27.9	22.9	22.7	23.4	3.4	4.4	4.1
Sex									
Male . . . . .	35.2	35.6	37.0	26.9	27.1	28.7	8.4	9.4	9.4
Female . . . . .	23.9	23.8	24.3	23.1	23.0	23.4	1.5	1.6	1.7
Age and sex									
12–17 years. . . . .	15.6	15.1	15.2	13.4	13.0	13.0	4.5	4.3	4.5
Male . . . . .	16.3	15.8	16.0	12.8	12.4	12.3	6.4	5.8	6.2
Female. . . . .	14.8	14.4	14.4	14.1	13.6	13.6	2.5	2.6	2.7
Hispanic origin and race <sup>3</sup>									
Not Hispanic or Latino:									
White only . . . . .	31.0	31.3	32.0	25.9	26.1	26.9	5.0	5.6	5.5
Black or African American only . . . . .	26.7	27.7	28.8	23.3	23.9	25.3	5.1	5.8	6.8
American Indian and Alaska Native only . .	55.0	44.9	44.3	42.3	38.0	37.1	10.7	8.6	5.2
Native Hawaiian and Other Pacific Islander only . . . . .	*	28.5	28.8	*	27.7	*	3.1	2.8	4.1
Asian only . . . . .	17.9	13.6	18.6	16.5	12.9	17.7	1.6	1.4	1.1
2 or more races . . . . .	38.9	34.1	38.1	32.3	31.1	35.0	5.1	5.3	5.5
Hispanic or Latino . . . . .	22.2	22.9	25.2	20.7	20.9	23.0	3.5	4.2	5.0

\* Estimates are considered unreliable; relative standard error greater than 17.5 percent of the log transformation of the proportion or minimum effective sample size less than 68 or minimum nominal sample size less than 100 or prevalence close to 0 or 100 percent. See Appendix I, National Household Survey on Drug Abuse (NHSDA).

<sup>1</sup>Any illicit drug includes marijuana/hashish, cocaine (including crack), heroin, hallucinogens (including LSD and PCP), inhalants, or any prescription-type psychotherapeutic drug used nonmedically.

<sup>2</sup>Psychotherapeutic drugs include prescription-type pain relievers, tranquilizers, stimulants, or sedatives; does not include over-the-counter drugs.

<sup>3</sup>Persons of Hispanic origin may be of any race. Race and Hispanic origin were collected using the 1997 Standards for Federal data on Race and Ethnicity. Single race categories shown include persons who reported only one racial group. The category 2 or more races includes persons who reported more than one racial group. See Appendix II, Race.

<sup>4</sup>Binge alcohol use is defined as drinking five or more drinks on the same occasion on at least 1 day in the past 30 days. Occasion is defined as at the same time or within a couple of hours of each other.

<sup>5</sup>Heavy alcohol use is defined as drinking five or more drinks on the same occasion on each of 5 or more days in the past 30 days; all heavy alcohol users are also "binge" alcohol users.

<sup>6</sup>Any tobacco product includes cigarettes, smokeless tobacco (i.e., chewing tobacco or snuff), cigars, or pipe tobacco.

NOTES: Because of methodological differences among the National Survey on Drug Use & Health (formerly called NHSDA), Monitoring the Future Study (MTF), and Youth Risk Behavior Survey (YRBS), rates of substance use measured by these surveys are not directly comparable. See Appendix I, NHSDA, MTF, and YRBS.

SOURCES: Substance Abuse and Mental Health Services Administration, Office of Applied Studies, National Survey on Drug Use & Health, [www.drugabusestatistics.samhsa.gov/](http://www.drugabusestatistics.samhsa.gov/).

**Table 66. Hypertension among persons 20 years of age and over, according to sex, age, race, and Hispanic origin: United States, 1988–94 and 1999–2000**

[Data are based on physical examinations of a sample of the civilian noninstitutionalized population]

<i>Sex, age, race, and Hispanic origin<sup>1</sup></i>	<i>1988–94</i>	<i>1999–2000</i>
20–74 years, age adjusted <sup>2</sup>	Percent of population (standard error) <sup>3</sup>	
Both sexes <sup>4,5</sup>	21.7 (0.6)	25.6 (1.3)
Male	23.4 (0.9)	25.9 (1.7)
Female <sup>4</sup>	20.0 (0.6)	25.2 (1.4)
Not Hispanic or Latino:		
White only, male	22.6 (1.1)	24.8 (1.9)
White only, female <sup>4</sup>	18.4 (0.7)	22.6 (1.7)
Black or African American only, male	34.3 (1.1)	34.8 (2.4)
Black or African American only, female <sup>4</sup>	34.9 (0.9)	38.6 (2.1)
Mexican male	23.4 (1.1)	24.2 (2.1)
Mexican female <sup>4</sup>	20.9 (1.0)	23.8 (1.8)
20 years and over, age adjusted <sup>2</sup>		
Both sexes <sup>4,5</sup>	25.5 (0.6)	29.8 (1.2)
Male	26.4 (0.9)	29.2 (1.6)
Female <sup>4</sup>	24.4 (0.6)	29.9 (1.4)
Not Hispanic or Latino:		
White only, male	25.6 (1.1)	28.2 (1.7)
White only, female <sup>4</sup>	22.9 (0.7)	27.6 (1.6)
Black or African American only, male	37.5 (1.2)	38.6 (2.2)
Black or African American only, female <sup>4</sup>	38.2 (0.9)	42.4 (2.0)
Mexican male	26.9 (1.1)	28.0 (2.1)
Mexican female <sup>4</sup>	25.0 (0.9)	28.0 (1.7)
20 years and over, crude		
Both sexes <sup>4,5</sup>	24.1 (0.8)	28.9 (1.3)
Male	23.8 (1.0)	27.4 (1.5)
Female <sup>4</sup>	24.4 (0.8)	30.3 (1.5)
Not Hispanic or Latino:		
White only, male	24.3 (1.2)	28.1 (1.6)
White only, female <sup>4</sup>	24.6 (1.1)	30.1 (1.9)
Black or African American only, male	31.1 (1.3)	32.7 (2.6)
Black or African American only, female <sup>4</sup>	32.3 (1.2)	38.1 (3.0)
Mexican male	16.4 (1.1)	19.3 (2.1)
Mexican female <sup>4</sup>	15.9 (0.7)	19.9 (2.1)
Male		
20–34 years	7.1 (0.8)	*9.8 (2.1)
35–44 years	17.1 (1.9)	17.1 (2.8)
45–54 years	29.2 (2.1)	32.3 (3.0)
55–64 years	40.6 (2.3)	44.1 (3.9)
65–74 years	54.4 (2.8)	59.9 (4.0)
75 years and over	60.4 (2.2)	68.8 (3.4)
Female <sup>4</sup>		
20–34 years	2.9 (0.6)	*
35–44 years	11.2 (1.1)	16.0 (2.5)
45–54 years	23.9 (2.0)	30.5 (3.4)
55–64 years	42.5 (2.3)	53.0 (3.1)
65–74 years	56.1 (1.7)	70.3 (3.5)
75 years and over	73.5 (1.8)	84.1 (2.7)

\* Estimates are considered unreliable. Data preceded by an asterisk have a relative standard error (RSE) of 20–30 percent. Data not shown have a RSE of greater than 30 percent.

--- Data not available.

<sup>1</sup>Persons of Mexican origin may be of any race. Starting with data year 1999 race-specific estimates are tabulated according to 1997 Standards for Federal data on Race and Ethnicity and are not strictly comparable with estimates for earlier years. The two non-Hispanic race categories shown in the table conform to 1997 Standards. The 1999–2000 race-specific estimates are for persons who reported only one racial group. Prior to data year 1999, data were tabulated according to 1977 Standards. Estimates for single race categories prior to 1999 included persons who reported one race or, if they reported more than one race, identified one race as best representing their race. The effect of the 1997 Standard on the 1999–2000 estimates can be seen by comparing 1999–2000 data tabulated according to the two Standards: Estimates based on the 1977 Standards of the percent of the population 20–74 years, age adjusted, with hypertension are: 0.1 percentage points higher for white males; 0.1 percentage points lower for white females; 0.2 percentage points higher for black males; and 0.1 percentage points higher for black females than estimates based on the 1997 Standards. See Appendix II, Race.

<sup>2</sup>Age adjusted to the 2000 standard population. 1988–94 estimates are age adjusted using five age groups; 1999–2000 estimates are age adjusted using three age groups (20–39, 40–59, and 60–74 or 60 years and over) due to a smaller sample size; however, use of three rather than five groups had virtually no effect on age-adjusted estimates. See Appendix II, Age adjustment.

<sup>3</sup>Standard errors of estimates are shown. 1999–2000 estimates are based on a smaller sample size than estimates for earlier time periods and therefore are subject to greater sampling error.

<sup>4</sup>Excludes pregnant women.

<sup>5</sup>Includes persons of all races and Hispanic origins, not just those shown separately.

NOTES: A person with hypertension is defined by either having elevated blood pressure (systolic pressure of at least 140 mmHg or diastolic pressure of at least 90 mmHg) or taking antihypertensive medication. Percents are based on the average of blood pressure measurements taken. In 1999–2000, 90.3 percent of participants had 3 or more blood pressure readings. Data have been revised and differ from the previous edition of *Health, United States*. Estimates for persons 20 years and over are used for setting and tracking *Healthy People 2010* objectives.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Health and Nutrition Examination Survey.

**Table 71 (page 1 of 2). Vaccinations of children 19–35 months of age for selected diseases, according to race, Hispanic origin, poverty status, and residence in metropolitan statistical area (MSA): United States, 1995–2002**

[Data are based on telephone interviews of a sample of the civilian noninstitutionalized population supplemented by a survey of immunization providers for interview participants]

Vaccination and year	Race and Hispanic origin							Poverty status	Location of residence				
	Not Hispanic or Latino							Below poverty	At or above poverty	Inside MSA <sup>2</sup>			
	All	White	Black or African American	American Indian or Alaska Native	Asian <sup>3</sup>	Native Hawaiian or other Pacific Islander <sup>3</sup>	2 or more races			Hispanic or Latino	Central city	Remaining areas	Outside MSA <sup>2</sup>
Percent of children 19–35 months of age													
Combined series (4:3:1:3): <sup>4</sup>													
1995.....	74	76	70	69	76	---	---	68	67	77	72	75	75
1997.....	76	79	73	73	71	---	---	73	71	79	74	78	77
1998.....	79	82	73	78	79	---	---	75	74	82	77	81	81
1999.....	78	81	74	75	77	---	---	75	73	81	77	79	80
2000.....	76	79	71	69	75	---	---	73	71	78	73	78	79
2001.....	77	79	71	76	77	---	---	77	72	79	75	78	79
2002.....	78	80	71	*	83	*	74	76	72	79	75	80	77
DTP/DT/DTaP (4 doses or more): <sup>5</sup>													
1995.....	78	80	74	71	84	---	---	75	71	81	77	79	78
1997.....	82	84	77	80	80	---	---	78	76	84	80	83	81
1998.....	84	87	77	83	89	---	---	81	80	86	82	85	85
1999.....	83	86	79	80	87	---	---	80	79	85	82	84	83
2000.....	82	84	76	75	85	---	---	79	76	84	80	83	83
2001.....	82	84	76	77	84	---	---	83	77	84	81	83	82
2002.....	82	84	76	*	88	*	78	79	75	84	79	84	80
Polio (3 doses or more):													
1995.....	88	89	84	86	90	---	---	87	85	89	87	88	89
1997.....	91	92	89	90	89	---	---	90	89	92	90	91	92
1998.....	91	92	88	85	93	---	---	89	90	92	89	91	93
1999.....	90	90	87	88	90	---	---	89	87	91	89	90	90
2000.....	90	91	87	90	93	---	---	88	87	90	88	90	91
2001.....	89	90	85	88	90	---	---	91	87	90	88	90	91
2002.....	90	91	87	*	92	95	87	90	88	91	89	91	90
Measles, Mumps, Rubella:													
1995.....	90	91	87	88	95	---	---	88	86	91	90	90	89
1997.....	90	91	89	92	90	---	---	88	86	92	90	91	91
1998.....	92	93	89	91	92	---	---	91	90	93	92	92	93
1999.....	92	92	90	92	93	---	---	90	90	92	91	92	90
2000.....	91	92	88	87	90	---	---	90	89	91	90	91	91
2001.....	91	92	89	94	90	---	---	92	89	92	91	92	91
2002.....	92	93	90	84	95	94	89	91	90	92	90	93	90
Hib (3 doses or more): <sup>6</sup>													
1995.....	91	93	88	93	90	---	---	89	88	93	91	92	92
1997.....	93	94	91	86	89	---	---	90	90	94	91	93	94
1998.....	93	95	90	90	92	---	---	92	91	95	92	94	94
1999.....	94	95	92	91	90	---	---	92	91	95	92	95	93
2000.....	93	95	93	90	92	---	---	91	90	95	92	94	95
2001.....	93	94	90	91	92	---	---	93	90	94	91	94	93
2002.....	93	94	92	*	95	93	90	92	90	94	92	94	93
Hepatitis B (3 doses or more):													
1995.....	68	68	66	52	80	---	---	70	65	69	69	71	59
1997.....	84	85	82	83	88	---	---	81	81	85	82	85	85
1998.....	87	88	84	82	89	---	---	86	85	88	85	88	87
1999.....	88	89	87	*	88	---	---	87	87	89	87	89	88
2000.....	90	91	89	91	91	---	---	88	87	91	89	90	92
2001.....	89	90	85	86	90	---	---	90	87	90	88	90	89
2002.....	90	91	88	*	94	94	84	90	88	90	89	91	90
Varicella: <sup>7</sup>													
1997.....	26	28	21	20	36	---	---	22	17	29	26	29	17
1998.....	43	42	42	28	53	---	---	47	41	44	45	45	34
1999.....	58	56	58	*	64	---	---	61	55	58	59	61	47
2000.....	68	66	67	62	77	---	---	70	64	69	69	70	60
2001.....	76	75	75	69	82	---	---	80	74	77	78	78	68
2002.....	81	79	83	71	87	*	79	82	79	81	81	83	75
PCV (3 doses or more): <sup>8</sup>													
2002.....	41	44	34	33	55	*	38	37	33	43	41	45	32

See footnotes at end of table.

**Table 71 (page 2 of 2). Vaccinations of children 19–35 months of age for selected diseases, according to race, Hispanic origin, poverty status, and residence in metropolitan statistical area (MSA): United States, 1995–2002**

[Data are based on telephone interviews of a sample of the civilian noninstitutionalized population supplemented by a survey of immunization providers for interview participants]

Vaccination and year	Not Hispanic or Latino					
	White		Black or African American		Hispanic or Latino	
	Below poverty	At or above poverty	Below poverty	At or above poverty	Below poverty	At or above poverty
Percent of children 19–35 months of age						
Combined series (4:3:1:3): <sup>4</sup>						
1995 . . . . .	69	78	70	73	63	72
1997 . . . . .	72	79	71	77	70	77
1998 . . . . .	77	83	72	74	73	79
1999 . . . . .	76	82	72	77	73	78
2000 . . . . .	73	80	69	72	70	74
2001 . . . . .	71	80	69	74	73	79
2002 . . . . .	72	81	68	72	75	76

--- Data not available.

\* Estimates are considered unreliable. Percents not shown if the unweighted sample size for the numerator was less than 30 or relative standard error greater than 50 percent or confidence interval half width greater than 10 percentage points. <sup>1</sup>Persons of Hispanic origin may be of any race. Starting with data for 2002, estimates were tabulated using the 1997 Standards for Federal data on Race and Ethnicity. Estimates for earlier years were tabulated using the 1977 Standards Race and Ethnicity. See Appendix II, Race.

<sup>2</sup>Metropolitan statistical area.

<sup>3</sup>Prior to data year 2002 the category "Asian" included "Native Hawaiian and Other Pacific Islander".

<sup>4</sup>The 4:3:1:3 combined series consists of 4 or more doses of diphtheria and tetanus toxoids and pertussis vaccine (DTP), diphtheria and tetanus toxoids (DT), or diphtheria and tetanus toxoids and acellular pertussis vaccine (DTaP), 3 or more doses of any poliovirus vaccine, 1 or more doses of a measles-containing vaccine (MCV), and 3 or more doses of *Haemophilus influenzae* type b vaccine (Hib).

<sup>5</sup>Diphtheria and tetanus toxoids and pertussis vaccine, diphtheria and tetanus toxoids, and diphtheria and tetanus toxoids and acellular pertussis vaccine.

<sup>6</sup>*Haemophilus influenzae* type b vaccine (Hib).

<sup>7</sup>Recommended in 1996. Data collection for varicella began in July 1996.

<sup>8</sup>Pneumococcal conjugate vaccine. Recommended in 2000. Data collection for PCV began in July 2001.

NOTES: Final estimates from the National Immunization Survey include an adjustment for children with missing immunization provider data. Poverty status is based on family income and family size using Bureau of the Census poverty thresholds. Children missing information about poverty status were omitted from analysis by poverty level. In 2002, 12.6 percent of all children, 18.3 percent of Hispanic, 10.0 percent of non-Hispanic white, and 13.6 percent of non-Hispanic black children were missing information about poverty status and were omitted. See Appendix I, National Immunization Survey. Some data for previous years have been revised and differ from previous editions of *Health, United States*.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics and National Immunization Program, National Immunization Survey. Data are available on the CDC Web site at [www.cdc.gov/nip/coverage/](http://www.cdc.gov/nip/coverage/) and [www.cdc.gov/nis/](http://www.cdc.gov/nis/).



**Table 72 (page 1 of 2). Vaccination coverage among children 19–35 months of age according to geographic division, State, and selected urban areas: United States, 1995–2002**

[Data are based on telephone interviews of a sample of the civilian noninstitutionalized population supplemented by a survey of immunization providers for interview participants]

<i>Geographic division and State</i>	<i>1995</i>	<i>1996</i>	<i>1997</i>	<i>1998</i>	<i>1999</i>	<i>2000</i>	<i>2001</i>	<i>2002</i>
Percent of children 19–35 months of age with 4:3:1:3 series <sup>1</sup>								
United States . . . . .	74	76	76	79	78	76	77	78
New England:								
Connecticut . . . . .	86	88	86	90	86	85	84	86
Maine . . . . .	88	86	87	86	83	83	82	83
Massachusetts . . . . .	81	87	88	87	85	85	81	89
New Hampshire . . . . .	89	83	85	82	85	83	84	87
Rhode Island . . . . .	83	84	82	86	87	82	84	86
Vermont . . . . .	87	87	87	86	91	83	88	87
Middle Atlantic:								
New Jersey . . . . .	70	75	76	82	81	76	76	80
New York . . . . .	74	80	75	85	81	75	81	81
Pennsylvania . . . . .	77	79	79	83	86	78	82	77
East North Central:								
Illinois . . . . .	78	75	74	78	77	75	76	80
Indiana . . . . .	74	70	72	78	74	76	74	78
Michigan . . . . .	68	75	75	78	74	75	74	84
Ohio . . . . .	71	78	72	78	78	72	75	77
Wisconsin . . . . .	74	77	81	78	85	80	83	82
West North Central:								
Iowa . . . . .	83	81	77	82	83	83	79	80
Kansas . . . . .	70	72	84	82	79	76	76	73
Minnesota . . . . .	75	84	78	82	85	86	79	79
Missouri . . . . .	75	75	79	85	75	78	78	77
Nebraska . . . . .	71	78	74	76	82	79	80	79
North Dakota . . . . .	79	80	80	79	80	81	83	79
South Dakota . . . . .	79	81	77	74	82	78	79	81
South Atlantic:								
Delaware . . . . .	68	81	80	79	78	75	79	81
District of Columbia . . . . .	69	76	71	71	78	71	74	72
Florida . . . . .	74	79	74	79	80	74	77	77
Georgia . . . . .	77	81	78	80	82	81	80	82
Maryland . . . . .	77	79	81	77	79	78	78	81
North Carolina . . . . .	80	78	80	83	82	87	85	87
South Carolina . . . . .	78	85	81	88	81	80	81	80
Virginia . . . . .	69	76	72	80	80	74	78	77
West Virginia . . . . .	71	71	81	82	81	76	81	79
East South Central:								
Alabama . . . . .	73	74	87	82	78	81	83	80
Kentucky . . . . .	81	76	78	82	88	81	79	74
Mississippi . . . . .	79	81	80	84	82	81	84	78
Tennessee . . . . .	74	79	79	82	78	81	84	80
West South Central:								
Arkansas . . . . .	73	70	80	73	77	72	74	74
Louisiana . . . . .	77	79	77	78	77	75	69	69
Oklahoma . . . . .	74	72	70	75	73	71	76	67
Texas . . . . .	71	71	74	74	72	69	74	71
Mountain:								
Arizona . . . . .	69	70	71	76	72	72	73	70
Colorado . . . . .	75	80	74	76	76	74	75	64
Idaho . . . . .	66	65	71	76	69	74	74	73
Montana . . . . .	71	75	75	82	83	77	82	71
Nevada . . . . .	67	67	70	76	73	74	72	78
New Mexico . . . . .	74	78	73	71	73	68	71	67
Utah . . . . .	65	65	69	76	80	77	74	79
Wyoming . . . . .	71	77	75	80	83	79	81	77
Pacific:								
Alaska . . . . .	74	72	75	81	80	77	74	78
California . . . . .	70	74	74	76	75	75	75	76
Hawaii . . . . .	75	80	77	79	82	75	73	81
Oregon . . . . .	71	70	72	76	72	79	73	75
Washington . . . . .	76	78	79	81	75	77	76	73

See footnotes at end of table.

**Table 72 (page 2 of 2). Vaccination coverage among children 19–35 months of age according to geographic division, State, and selected urban areas: United States, 1995–2002**

[Data are based on telephone interviews of a sample of the civilian noninstitutionalized population supplemented by a survey of immunization providers for interview participants]

<i>Geographic division and urban areas</i>	<i>1995</i>	<i>1996</i>	<i>1997</i>	<i>1998</i>	<i>1999</i>	<i>2000</i>	<i>2001</i>	<i>2002</i>
Percent of children 19–35 months of age with 4:3:1:3 series <sup>1</sup>								
New England:								
Boston, Massachusetts . . . . .	85	85	86	89	84	79	85	80
Middle Atlantic:								
New York City, New York . . . . .	72	78	72	81	78	68	76	81
Newark, New Jersey . . . . .	67	64	68	64	67	63	64	60
Philadelphia, Pennsylvania . . . . .	67	74	81	80	81	74	74	74
East North Central:								
Chicago, Illinois . . . . .	70	72	66	64	71	65	69	72
Cuyahoga County (Cleveland), Ohio . . . . .	72	79	70	75	74	73	73	74
Detroit, Michigan . . . . .	54	60	60	70	66	59	63	66
Franklin County (Columbus), Ohio . . . . .	75	80	73	78	78	77	78	84
Marion County (Indianapolis), Indiana . . . . .	77	72	80	78	79	69	72	75
Milwaukee County (Milwaukee), Wisconsin . . . . .	69	70	72	73	74	69	70	70
South Atlantic:								
Baltimore, Maryland . . . . .	*	80	84	81	72	70	72	75
Dade County (Miami), Florida . . . . .	78	79	75	75	84	78	78	73
District of Columbia . . . . .	67	76	71	71	78	71	74	72
Duval County (Jacksonville), Florida . . . . .	69	76	69	79	78	79	76	77
Fulton/DeKalb Counties (Atlanta), Georgia . . . . .	*	76	74	71	83	80	75	79
East South Central:								
Davidson County (Nashville), Tennessee . . . . .	72	80	76	80	73	73	82	80
Shelby County (Memphis), Tennessee . . . . .	69	70	70	71	75	77	74	73
Jefferson County (Birmingham), Alabama . . . . .	86	76	83	85	85	79	87	82
West South Central:								
Bexar County (San Antonio), Texas . . . . .	76	74	79	79	70	68	73	76
Dallas County (Dallas), Texas . . . . .	70	68	75	71	72	67	67	76
El Paso County (El Paso), Texas . . . . .	72	61	63	78	73	70	69	77
Houston, Texas . . . . .	64	62	62	61	63	65	69	64
Orleans Parish (New Orleans), Louisiana . . . . .	78	72	69	79	72	70	68	63
Mountain:								
Maricopa County (Phoenix), Arizona . . . . .	67	72	70	77	71	71	72	73
Pacific:								
King County (Seattle), Washington . . . . .	84	82	81	86	77	75	72	77
Los Angeles County (Los Angeles), California . . . . .	68	75	72	76	76	77	73	77
San Diego County (San Diego), California . . . . .	72	74	76	77	75	76	80	78
Santa Clara County (Santa Clara), California . . . . .	76	80	69	84	82	76	77	84

\* Estimates are considered unreliable. Percents not shown if the unweighted sample size for the numerator was less than 30 or relative standard error greater than 50 percent or confidence interval half width greater than 10 percentage points.

<sup>1</sup>The 4:3:1:3 combined series consists of 4 or more doses of diphtheria and tetanus toxoids and pertussis vaccine (DTP), diphtheria and tetanus toxoids (DT), or diphtheria and tetanus toxoids and acellular pertussis vaccine (DTaP), 3 or more doses of any poliovirus vaccine, 1 or more doses of a measles-containing vaccine (MCV), and 3 or more doses of *Haemophilus influenzae* type b vaccine (Hib).

NOTES: Urban areas were chosen because they were high risk for under-vaccination. Final estimates from the National Immunization Survey include an adjustment for children with missing immunization provider data.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics and National Immunization Program, National Immunization Survey. Data are available on the CDC Web site at [www.cdc.gov/nip/coverage/](http://www.cdc.gov/nip/coverage/) and [www.cdc.gov/nis/](http://www.cdc.gov/nis/).

**Table 82 (page 1 of 2). Ambulatory care visits to physician offices and hospital outpatient and emergency departments by selected characteristics: United States, selected years 1995–2001**

[Data are based on reporting by a sample of office-based physicians and hospital outpatient and emergency departments]

Age, sex, and race	All places <sup>1</sup>				Physician offices			
	1995	1999	2000	2001	1995	1999	2000	2001
Number of visits in thousands								
Total . . . . .	860,859	944,122	1,014,848	1,071,692	697,082	756,734	823,542	880,487
Under 18 years . . . . .	194,644	183,072	212,165	216,202	150,351	135,627	163,459	168,663
18–44 years . . . . .	285,184	300,051	315,774	317,826	219,065	227,005	243,011	244,288
45–64 years . . . . .	188,320	240,688	255,894	279,955	159,531	201,911	216,783	239,106
45–54 years . . . . .	104,891	130,824	142,233	154,518	88,266	108,597	119,474	130,795
55–64 years . . . . .	83,429	109,864	113,661	125,437	71,264	93,315	97,309	108,310
65 years and over . . . . .	192,712	220,311	231,014	257,709	168,135	192,190	200,289	228,430
65–74 years . . . . .	102,605	106,066	116,505	126,828	90,544	92,642	102,447	112,978
75 years and over . . . . .	90,106	114,245	114,510	130,881	77,591	99,548	97,842	115,452
Number of visits per 100 persons								
Total, age adjusted <sup>2</sup> . . . . .	334	352	374	385	271	283	304	316
Total, crude . . . . .	329	347	370	383	266	279	300	314
Under 18 years . . . . .	275	254	293	298	213	188	226	233
18–44 years . . . . .	264	277	291	289	203	209	224	222
45–64 years . . . . .	364	410	422	437	309	344	358	373
45–54 years . . . . .	339	368	385	397	286	305	323	336
55–64 years . . . . .	401	477	481	499	343	405	412	431
65 years and over . . . . .	612	679	706	764	534	592	612	678
65–74 years . . . . .	560	596	656	702	494	521	577	625
75 years and over . . . . .	683	779	766	837	588	679	654	739
Sex and age								
Male, age adjusted <sup>2</sup> . . . . .	290	309	325	337	232	246	261	275
Male, crude . . . . .	277	297	314	325	220	235	251	264
Under 18 years . . . . .	273	255	302	302	209	189	231	235
18–44 years . . . . .	190	206	203	207	139	150	148	152
45–54 years . . . . .	275	300	316	327	229	247	260	273
55–64 years . . . . .	351	427	428	429	300	361	367	371
65–74 years . . . . .	508	580	614	670	445	510	539	598
75 years and over . . . . .	711	758	771	852	616	663	670	758
Female, age adjusted <sup>2</sup> . . . . .	377	393	420	431	309	317	345	356
Female, crude . . . . .	378	396	424	437	310	320	348	362
Under 18 years . . . . .	277	252	285	295	217	187	221	231
18–44 years . . . . .	336	345	377	370	265	267	298	291
45–54 years . . . . .	400	432	451	464	339	361	384	397
55–64 years . . . . .	446	522	529	563	382	445	453	485
65–74 years . . . . .	603	610	692	728	534	530	609	648
75 years and over . . . . .	666	792	763	828	571	689	645	726
Race and age <sup>3</sup>								
White, age adjusted <sup>2</sup> . . . . .	339	356	380	402	282	292	315	338
White, crude . . . . .	338	357	381	407	281	293	316	343
Under 18 years . . . . .	295	258	306	322	237	197	243	260
18–44 years . . . . .	267	284	301	305	211	222	239	242
45–54 years . . . . .	334	368	386	410	286	312	330	354
55–64 years . . . . .	397	474	480	513	345	410	416	451
65–74 years . . . . .	557	597	641	722	496	526	568	651
75 years and over . . . . .	689	781	764	858	598	687	658	764
Black or African American, age adjusted . . . . .	309	355	353	327	204	239	239	212
Black or African American, crude . . . . .	281	322	324	302	178	211	214	189
Under 18 years . . . . .	193	237	264	201	100	144	167	102
18–44 years . . . . .	260	267	257	266	158	155	149	154
45–54 years . . . . .	387	398	383	397	281	277	269	286
55–64 years . . . . .	414	543	495	476	294	404	373	341
65–74 years . . . . .	553	611	656	567	429	485	512	426
75 years and over . . . . .	534	780	745	632	395	608	568	473

See footnotes at end of table.

**Table 82 (page 2 of 2). Ambulatory care visits to physician offices and hospital outpatient and emergency departments by selected characteristics: United States, selected years 1995–2001**

[Data are based on reporting by a sample of office-based physicians and hospital outpatient and emergency departments]

Age, sex, and race	Hospital outpatient departments				Hospital emergency departments			
	1995	1999	2000	2001	1995	1999	2000	2001
Number of visits in thousands								
Total . . . . .	67,232	84,623	83,289	83,715	96,545	102,765	108,017	107,490
Under 18 years . . . . .	17,636	21,758	21,076	21,299	26,657	25,688	27,630	26,239
18–44 years . . . . .	24,299	29,514	26,947	27,430	41,820	43,532	45,816	46,109
45–64 years . . . . .	14,811	20,891	20,772	21,590	13,978	17,886	18,339	19,260
45–54 years . . . . .	8,029	11,541	11,558	12,016	8,595	10,686	11,201	11,707
55–64 years . . . . .	6,782	9,350	9,214	9,574	5,383	7,200	7,138	7,552
65 years and over . . . . .	10,486	12,461	14,494	13,396	14,090	15,659	16,232	15,883
65–74 years . . . . .	6,004	6,969	7,515	7,299	6,057	6,455	6,543	6,551
75 years and over . . . . .	4,482	5,493	6,979	6,097	8,033	9,205	9,690	9,332
Number of visits per 100 persons								
Total, age adjusted <sup>2</sup> . . . . .	26	31	31	30	37	38	40	39
Total, crude . . . . .	26	31	30	30	37	38	39	38
Under 18 years . . . . .	25	30	29	29	38	36	38	36
18–44 years . . . . .	22	27	25	25	39	40	42	42
45–64 years . . . . .	29	36	34	34	27	31	30	30
45–54 years . . . . .	26	32	31	31	28	30	30	30
55–64 years . . . . .	33	41	39	38	26	31	30	30
65 years and over . . . . .	33	38	44	40	45	48	50	47
65–74 years . . . . .	33	39	42	40	33	36	37	36
75 years and over . . . . .	34	37	47	39	61	63	65	60
Sex and age								
Male, age adjusted <sup>2</sup> . . . . .	21	26	26	25	37	37	38	37
Male, crude . . . . .	21	25	25	24	36	37	38	37
Under 18 years . . . . .	25	29	29	29	40	37	41	38
18–44 years . . . . .	14	18	17	16	37	38	38	39
45–54 years . . . . .	20	25	26	26	26	29	30	29
55–64 years . . . . .	26	37	32	30	25	30	30	28
65–74 years . . . . .	29	35	38	35	34	35	36	38
75 years and over . . . . .	34	34	42	37	61	61	59	57
Female, age adjusted <sup>2</sup> . . . . .	31	37	35	35	37	39	41	40
Female, crude . . . . .	31	37	35	35	37	39	41	40
Under 18 years . . . . .	25	31	29	29	35	34	35	34
18–44 years . . . . .	31	36	33	34	40	42	46	45
45–54 years . . . . .	32	40	36	36	29	31	31	31
55–64 years . . . . .	38	44	45	45	26	32	31	32
65–74 years . . . . .	36	43	46	45	32	37	37	35
75 years and over . . . . .	34	39	49	40	61	64	69	61
Race and age <sup>3</sup>								
White, age adjusted <sup>2</sup> . . . . .	23	28	28	28	34	35	37	36
White, crude . . . . .	23	28	28	28	34	35	37	36
Under 18 years . . . . .	23	28	27	28	35	33	36	34
18–44 years . . . . .	20	25	23	23	36	37	39	40
45–54 years . . . . .	23	28	28	28	25	27	28	28
55–64 years . . . . .	28	36	36	34	24	28	28	28
65–74 years . . . . .	29	36	38	37	32	34	35	33
75 years and over . . . . .	31	34	44	36	60	61	63	58
Black or African American, age adjusted . . . . .	48	54	51	51	58	62	62	65
Black or African American, crude . . . . .	45	51	48	49	58	60	62	64
Under 18 years . . . . .	39	42	40	44	53	51	57	55
18–44 years . . . . .	38	45	40	41	64	68	68	71
45–54 years . . . . .	55	66	61	56	51	55	53	56
55–64 years . . . . .	73	83	70	79	47	57	52	56
65–74 years . . . . .	*77	69	85	70	47	58	59	71
75 years and over . . . . .	66	*79	85	67	73	93	92	91

\* Estimates are considered unreliable. Data preceded by an asterisk have a relative standard error of 20–30 percent.

<sup>1</sup>All places includes visits to physician offices and hospital outpatient and emergency departments.

<sup>2</sup>Estimates are age adjusted to the year 2000 standard population using six age groups: under 18 years, 18–44 years, 45–54 years, 55–64 years, 65–74 years, and 75 years and over. See Appendix II, Age adjustment.

<sup>3</sup>Beginning in 1999 the instruction for the race item on the Patient Record Form was changed so that more than one race could be recorded. In previous years only one racial category could be checked. Estimates for racial groups presented in this table are for visits where only one race was recorded. Estimates for visits where multiple races were checked are unreliable and are not presented.

NOTES: Some numbers were revised and differ from the previous edition of *Health, United States*. Rates for 1995–2000 were computed using 1990-based postcensal estimates of the civilian noninstitutionalized population as of July 1 adjusted for net underenumeration using the 1990 National Population Adjustment Matrix from the Bureau of the Census. Rates for 2001 were computed using 2000-based postcensal estimates of the civilian noninstitutionalized population as of July 1. The difference between rates for 2000 computed using 1990-based postcensal estimates and rates computed using estimates based on 2000 census counts is minimal. See [www.cdc.gov/nchs/about/major/ahcd/census2000.htm](http://www.cdc.gov/nchs/about/major/ahcd/census2000.htm). Rates will be overestimated to the extent that visits by institutionalized persons are counted in the numerator (for example, hospital emergency department visits by nursing home residents) and institutionalized persons are omitted from the denominator. Data for additional years are available. See Appendix III.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National Ambulatory Medical Care Survey and National Hospital Ambulatory Medical Care Survey.

**Table 83 (page 1 of 2). Injury-related visits to hospital emergency departments by sex, age, and intent and mechanism of injury: United States, average annual 1995–96, 1998–99, and 2000–2001**

[Data are based on reporting by a sample of hospital emergency departments]

<i>Sex, age, and intent and mechanism of injury<sup>1</sup></i>	<i>1995–96</i>	<i>1998–99</i>	<i>2000–01</i>	<i>1995–96</i>	<i>1998–99</i>	<i>2000–01</i>
Both sexes	Injury-related visits in thousands			Injury-related visits per 10,000 persons		
All ages <sup>2,3</sup> . . . . .	36,081	37,361	39,918	1,360.9	1,378.3	1,441.9
Male						
All ages <sup>2,3</sup> . . . . .	20,030	20,445	21,852	1,530.7	1,535.2	1,606.2
Under 18 years <sup>2</sup> . . . . .	6,238	6,054	6,517	1,720.2	1,644.3	1,759.4
Unintentional injuries <sup>4</sup> . . . . .	5,478	5,190	5,387	1,510.5	1,409.7	1,454.5
Falls . . . . .	1,402	1,247	1,428	386.5	338.7	385.4
Struck by or against objects or persons . . . .	1,011	1,398	1,428	278.9	379.7	385.4
Motor vehicle traffic . . . . .	453	388	435	125.0	105.5	117.5
Cut or pierce . . . . .	493	505	403	136.0	137.1	108.9
Intentional injuries . . . . .	290	222	255	80.0	60.3	68.8
18–24 years <sup>2</sup> . . . . .	2,980	2,948	3,225	2,396.9	2,295.1	2,418.6
Unintentional injuries <sup>4</sup> . . . . .	2,423	2,319	2,347	1,948.7	1,805.3	1,760.3
Falls . . . . .	299	333	281	240.8	259.5	210.5
Struck by or against objects or persons . . . .	387	389	443	311.0	303.1	332.3
Motor vehicle traffic . . . . .	347	412	511	279.4	320.9	383.4
Cut or pierce . . . . .	304	344	366	244.8	268.2	274.3
Intentional injuries . . . . .	335	291	309	269.2	226.5	231.8
25–44 years <sup>2</sup> . . . . .	7,245	7,112	7,287	1,767.4	1,751.7	1,798.3
Unintentional injuries <sup>4</sup> . . . . .	5,757	5,391	5,234	1,404.3	1,327.8	1,291.7
Falls . . . . .	817	847	867	199.4	208.6	213.9
Struck by or against objects or persons . . . .	619	819	774	151.0	201.6	191.0
Motor vehicle traffic . . . . .	912	839	793	222.6	206.6	195.7
Cut or pierce . . . . .	860	786	777	209.8	193.7	191.8
Intentional injuries . . . . .	701	473	458	171.0	116.5	113.0
45–64 years <sup>2</sup> . . . . .	2,240	2,822	3,218	883.4	1,011.9	1,066.9
Unintentional injuries <sup>4</sup> . . . . .	1,845	2,213	2,314	727.6	793.4	767.0
Falls . . . . .	445	569	542	175.6	204.0	179.7
Struck by or against objects or persons . . . .	186	197	286	73.3	70.6	94.6
Motor vehicle traffic . . . . .	244	322	323	96.3	115.5	107.2
Cut or pierce . . . . .	203	290	332	79.9	104.1	110.1
Intentional injuries . . . . .	86	73	121	33.8	26.2	40.0
65 years and over <sup>2</sup> . . . . .	1,327	1,509	1,605	1,000.7	1,100.3	1,142.8
Unintentional injuries <sup>4</sup> . . . . .	1,009	1,151	1,206	760.6	839.3	858.8
Falls . . . . .	505	584	544	380.9	426.0	387.5
Struck by or against objects or persons . . . .	*39	101	112	*29.4	73.3	79.8
Motor vehicle traffic . . . . .	99	113	144	74.7	82.7	102.4
Cut or pierce . . . . .	*81	85	117	*61.1	*61.7	83.3
Intentional injuries . . . . .	*	16	14	*	*	*

See footnotes at end of table.

**Table 83 (page 2 of 2). Injury-related visits to hospital emergency departments by sex, age, and intent and mechanism of injury: United States, average annual 1995–96, 1998–99, and 2000–2001**

[Data are based on reporting by a sample of hospital emergency departments]

<i>Sex, age, and intent and mechanism of injury<sup>1</sup></i>	<i>1995–96</i>	<i>1998–99</i>	<i>2000–01</i>	<i>1995–96</i>	<i>1998–99</i>	<i>2000–01</i>
Female	Injury-related visits in thousands			Injury-related visits per 10,000 persons		
All ages <sup>2,3</sup>	16,051	16,917	18,066	1,186.4	1,217.6	1,271.4
Under 18 years <sup>2</sup>	4,372	4,290	4,269	1,263.9	1,220.4	1,207.0
Unintentional injuries <sup>4</sup>	3,760	3,598	3,408	1,087.0	1,023.4	963.7
Falls	1,040	964	966	300.7	274.2	273.2
Struck by or against objects or persons	477	689	670	137.9	196.1	189.5
Motor vehicle traffic	447	394	437	129.3	112.1	123.6
Cut or pierce	253	258	208	73.0	73.4	58.9
Intentional injuries	220	147	166	63.6	41.7	46.9
18–24 years <sup>2</sup>	1,900	2,049	2,338	1,523.4	1,589.6	1,749.3
Unintentional injuries <sup>4</sup>	1,430	1,464	1,657	1,146.7	1,135.8	1,239.5
Falls	268	208	296	214.5	161.7	221.6
Struck by or against objects or persons	134	169	181	107.4	130.8	135.1
Motor vehicle traffic	373	442	500	298.8	342.7	373.9
Cut or pierce	131	122	162	105.3	94.8	120.9
Intentional injuries	239	230	192	191.7	178.6	143.3
25–44 years <sup>2</sup>	5,098	5,257	5,645	1,205.8	1,246.7	1,345.3
Unintentional injuries <sup>4</sup>	3,877	3,820	3,834	916.8	906.1	913.9
Falls	817	908	903	193.3	215.5	215.2
Struck by or against objects or persons	380	405	358	89.8	95.9	85.3
Motor vehicle traffic	872	794	849	206.2	188.4	202.3
Cut or pierce	338	472	373	79.8	111.9	89.0
Intentional injuries	422	422	406	99.8	100.2	96.8
45–64 years <sup>2</sup>	2,369	2,802	3,098	873.7	940.4	963.9
Unintentional injuries <sup>4</sup>	1,857	2,109	2,155	685.2	707.9	670.5
Falls	600	706	755	221.5	237.0	234.8
Struck by or against objects or persons	160	193	186	58.8	64.8	57.8
Motor vehicle traffic	343	317	345	126.5	106.4	107.2
Cut or pierce	127	214	183	46.9	71.8	56.8
Intentional injuries	*64	111	86	*23.5	37.4	26.8
65 years and over <sup>2</sup>	2,313	2,518	2,716	1,256.1	1,346.8	1,417.4
Unintentional injuries <sup>4</sup>	1,931	2,016	2,081	1,049.0	1,078.1	1,086.2
Falls	1,230	1,258	1,326	667.9	672.7	691.9
Struck by or against objects or persons	82	119	118	44.8	63.6	61.5
Motor vehicle traffic	169	148	130	91.6	79.3	67.8
Cut or pierce	*42	73	65	*22.7	*39.0	*34.0
Intentional injuries	*	34	22	*	*	*

\* Estimates are considered unreliable. Data preceded by an asterisk have a relative standard error (RSE) of 20–30 percent. Data not shown have a RSE of greater than 30 percent.

<sup>1</sup>Intent and mechanism of injury are based on the first-listed external cause of injury code (E code). Intentional injuries include suicide attempts and assaults. See Appendix II, First-listed external cause of injury and Appendix II, table VII for listing of E codes.

<sup>2</sup>Includes all injury-related visits not shown separately in table including those with undetermined intent (less than 0.5 percent in 2000–01), insufficient or no information to code cause of injury (about 16.9 percent in 2000–01), and resulting from adverse effects of medical treatment (about 3.3 percent in 2000–01).

<sup>3</sup>Rates are age adjusted to the year 2000 standard population using six age groups: under 18 years, 18–24 years, 25–44 years, 45–64 years, 65–74 years, and 75 years and over. See Appendix II, Age adjustment.

<sup>4</sup>Includes unintentional injury-related visits with mechanism of injury not shown in table.

NOTES: An emergency department visit was considered injury related if the checkbox for injury was indicated, the physician's diagnosis was injury related (ICD–9-CM 800–999), an external cause of injury code was present (ICD–9-CM E800–E999), or the patient's reason for the visit was injury related. Rates for 1995–2000 were computed using 1990-based postcensal estimates of the civilian noninstitutionalized population as of July 1 adjusted for net underenumeration using the 1990 National Population Adjustment Matrix from the Bureau of the Census. Rates for 2001 were computed using 2000-based postcensal estimates of the civilian noninstitutionalized population as of July 1. The difference between rates for 2000 computed using 1990-based postcensal estimates and rates computed using estimates based on 2000 census counts is minimal. See [www.cdc.gov/nchs/about/major/ahcd/census2000.htm](http://www.cdc.gov/nchs/about/major/ahcd/census2000.htm). Rates will be overestimated to the extent that visits by institutionalized persons are counted in the numerator (for example, hospital emergency department visits by nursing home residents) and institutionalized persons are omitted from the denominator. Data for additional years are available. See Appendix III.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Hospital Ambulatory Medical Care Survey.

**Table 84 (page 1 of 2). Ambulatory care visits to primary care and specialist physicians, according to selected characteristics and type of physician: United States, 1980, 1990, and 2001**

[Data are based on reporting by a sample of office-based physicians]

Age, sex, and race	Type of primary care physician <sup>1</sup>											
	All primary care			General and family practice			Internal medicine			Pediatrics		
	1980	1990	2001	1980	1990	2001	1980	1990	2001	1980	1990	2001
Percent of all physician office visits												
Total . . . . .	56.6	54.9	51.3	33.5	29.9	23.9	12.1	13.8	15.3	10.9	11.2	12.1
Under 18 years . . . . .	76.6	78.3	80.2	26.1	26.5	16.6	2.0	2.9	*	48.5	48.9	62.1
18–44 years . . . . .	43.6	44.3	42.3	34.3	31.9	28.2	8.6	11.8	13.2	0.7	0.7	*0.9
45–64 years . . . . .	56.0	50.9	43.7	36.3	32.1	25.5	19.5	18.6	18.3	*	*	0.0
45–54 years . . . . .	54.6	49.4	43.2	37.4	32.0	25.8	17.1	17.1	17.3	*	*	0.0
55–64 years . . . . .	57.3	52.4	44.4	35.4	32.1	25.0	21.8	20.0	19.4	*	*	0.0
65 years and over . . . . .	60.3	51.5	47.4	37.5	28.1	22.9	22.7	23.3	24.5	*	*	*
65–74 years . . . . .	59.5	51.2	46.8	37.4	28.1	25.0	22.1	23.0	21.7	*	*	*
75 years and over . . . . .	61.3	51.8	48.1	37.6	28.0	20.9	23.5	23.7	27.2	*	*	*
Sex and age												
Male:												
Under 18 years . . . . .	77.1	77.9	80.0	25.6	24.1	16.1	2.0	3.0	*	49.4	50.7	62.5
18–44 years . . . . .	50.5	51.7	52.2	38.0	35.9	35.2	11.5	15.0	16.2	*	*	*0.9
45–64 years . . . . .	55.0	50.5	46.6	34.4	31.0	26.7	20.5	19.2	19.9	*	*	0.0
65 years and over . . . . .	57.9	51.1	47.3	35.6	27.7	22.3	22.3	23.3	25.0	*	*	0.0
Female:												
Under 18 years . . . . .	76.0	78.8	80.5	26.6	29.1	17.1	2.0	2.8	*	47.4	46.9	61.7
18–44 years . . . . .	40.4	41.0	37.2	32.5	30.0	24.7	7.3	10.3	11.6	*	*	*0.9
45–64 years . . . . .	56.7	51.1	41.8	37.7	32.8	24.7	18.9	18.2	17.2	*	*	0.0
65 years and over . . . . .	61.8	51.7	47.5	38.7	28.3	23.3	22.9	23.3	24.1	*	*	*
Race and age <sup>2</sup>												
White:												
Under 18 years . . . . .	76.5	78.2	79.7	26.4	27.1	16.8	2.0	2.3	*	48.2	48.8	61.3
18–44 years . . . . .	43.8	43.2	43.2	34.5	31.9	28.8	8.6	10.6	13.5	*	*	*0.9
45–64 years . . . . .	55.4	49.4	44.2	36.0	31.5	26.2	19.2	17.6	17.9	*	*	0.0
65 years and over . . . . .	60.0	50.7	47.5	36.6	27.5	23.0	23.3	23.1	24.4	*	*	*
Black or African American:												
Under 18 years . . . . .	77.1	82.1	71.2	23.7	20.2	*14.4	*	*	*	51.2	52.1	56.3
18–44 years . . . . .	41.4	50.4	31.2	31.7	31.9	19.8	9.0	18.1	*11.0	*	*	*
45–64 years . . . . .	61.3	58.2	42.3	38.6	31.2	18.0	22.6	26.9	*24.3	*	*	0.0
65 years and over . . . . .	63.3	57.8	49.7	49.0	28.9	*21.9	14.2	28.7	*27.7	*	*	0.0

See footnotes at end of table.



**Table 84 (page 2 of 2). Ambulatory care visits to primary care and specialist physicians, according to selected characteristics and type of physician: United States, 1980, 1990, and 2001**

[Data are based on reporting by a sample of office-based physicians]

Age, sex, and race	Type of specialist physician <sup>1</sup>								
	All specialists			Obstetrics and gynecology			All other specialists		
	1980	1990	2001	1980	1990	2001	1980	1990	2001
Percent of all physician office visits									
Total . . . . .	43.4	45.1	48.7	9.6	9.0	7.9	33.8	36.1	40.8
Under 18 years . . . . .	23.4	21.7	19.8	1.3	1.2	*	22.2	20.5	18.7
18–44 years . . . . .	56.4	55.7	57.7	21.7	21.5	19.3	34.7	34.1	38.4
45–64 years . . . . .	44.0	49.1	56.3	4.2	4.8	6.7	39.8	44.3	49.6
45–54 years . . . . .	45.4	50.6	56.8	5.6	6.5	8.3	39.8	44.2	48.5
55–64 years . . . . .	42.7	47.6	55.6	2.9	3.2	4.8	39.8	44.4	50.8
65 years and over . . . . .	39.7	48.5	52.6	1.4	1.2	*2.1	38.4	47.3	50.5
65–74 years . . . . .	40.5	48.8	53.2	1.7	1.6	*2.7	38.8	47.2	50.5
75 years and over . . . . .	38.7	48.2	51.9	1.0	*0.7	*1.5	37.7	47.5	50.4
Sex and age									
Male:									
Under 18 years . . . . .	22.9	22.1	20.0	...	...	...	22.7	21.9	20.0
18–44 years . . . . .	49.5	48.3	47.8	...	...	...	49.2	48.2	47.7
45–64 years . . . . .	45.0	49.5	53.4	...	...	...	44.4	49.4	53.4
65 years and over . . . . .	42.1	48.9	52.7	...	...	...	41.8	48.8	52.7
Female:									
Under 18 years . . . . .	24.0	21.2	19.5	2.5	2.3	*	21.5	18.9	17.3
18–44 years . . . . .	59.6	59.0	62.8	31.7	31.4	29.1	27.9	27.6	33.7
45–64 years . . . . .	43.3	48.9	58.2	6.7	7.9	11.2	36.6	40.9	47.0
65 years and over . . . . .	38.2	48.3	52.5	2.1	1.9	*3.6	36.1	46.4	48.9
Race and age <sup>2</sup>									
White:									
Under 18 years . . . . .	23.5	21.8	20.3	1.1	1.0	*1.1	22.4	20.8	19.2
18–44 years . . . . .	56.2	56.8	56.8	21.0	21.8	19.2	35.2	35.0	37.6
45–64 years . . . . .	44.6	50.6	55.8	4.1	4.9	6.3	40.4	45.7	49.5
65 years and over . . . . .	40.0	49.3	52.5	1.4	1.3	*2.0	38.6	48.1	50.5
Black or African American:									
Under 18 years . . . . .	22.9	17.9	*28.8	2.8	*3.4	*	20.1	14.5	*26.3
18–44 years . . . . .	58.6	49.6	68.8	27.1	18.6	*23.9	31.5	31.0	44.9
45–64 years . . . . .	38.7	41.8	57.7	4.8	4.0	*	33.9	37.9	48.5
65 years and over . . . . .	36.7	42.2	50.3	*	*	*	35.4	41.3	45.9

\* Estimates are considered unreliable. Data preceded by an asterisk have a relative standard error (RSE) of 20–30 percent. Data not shown have a RSE of greater than 30 percent.

... Category not applicable.

<sup>1</sup>Type of physician is based on physician's self-designated primary area of practice. Primary care physicians are defined as practitioners in the fields of general and family practice, general internal medicine, and general pediatrics. Primary care physicians in general and family practice exclude specialists such as sports medicine and geriatrics. Primary care internal medicine physicians exclude internal medicine specialists such as allergists, cardiologists, endocrinologists, etc. Primary care pediatricians exclude pediatric specialists such as adolescent medicine specialists, neonatologists, pediatric allergists, pediatric cardiologists, etc. Specialist physicians include obstetricians and gynecologists in addition to other specialists not included in general and family practice, internal medicine, pediatrics, and all other specialists. See Appendix II, Physician specialty.

<sup>2</sup>Beginning in 1999 the instruction for the race item on the Patient Record Form was changed so that more than one race could be recorded. In previous years only one racial category could be checked. Estimates for racial groups presented in this table are for visits where only one race was recorded. Estimates for visits where multiple races were checked are unreliable and are not presented.

NOTES: This table presents data on ambulatory care visits to physician offices and excludes ambulatory care visits to other sites such as hospital outpatient and emergency departments. In 1980 the survey excluded Alaska and Hawaii. Data for all other years include all 50 States. Excludes visits with type of physician unknown. Data for additional years are available. See Appendix III.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Ambulatory Medical Care Survey.

**Table 121. Employers' costs per employee-hour worked for total compensation, wages and salaries, and health insurance, according to selected characteristics: United States, selected years 1991–2003**

[Data are based on surveys of employers]

Characteristic	Total compensation					Wages and salaries				
	1991	2000	2001	2002	2003	1991	2000	2001	2002	2003
Amount per employee-hour worked										
State and local government. . . . .	\$22.31	\$29.05	\$30.06	\$31.29	\$32.62	\$15.52	\$20.57	\$21.34	\$22.14	\$22.85
Total private industry. . . . .	15.40	19.85	20.81	21.71	22.37	11.14	14.49	15.18	15.80	16.15
Industry:										
Goods producing . . . . .	18.48	23.55	24.40	25.44	26.25	12.70	16.25	16.86	17.47	17.78
Service producing . . . . .	14.31	18.72	19.74	20.66	21.30	10.58	13.95	14.68	15.33	15.70
Manufacturing . . . . .	18.22	23.41	24.30	25.20	26.02	12.40	16.01	16.66	17.19	17.43
Nonmanufacturing . . . . .	14.67	19.12	20.12	21.06	21.71	10.81	14.18	14.89	15.55	15.92
Occupation:										
White collar . . . . .	18.15	24.19	25.34	26.43	28.85	13.40	17.91	18.71	19.48	21.03
Blue collar . . . . .	15.15	18.73	19.35	20.15	21.21	10.37	12.99	13.48	14.01	14.52
Service . . . . .	7.82	9.72	10.32	10.95	13.68	5.96	7.57	8.00	8.42	9.91
Census region:										
Northeast . . . . .	17.56	22.67	23.91	25.00	25.70	12.65	16.37	17.22	17.97	18.30
Midwest . . . . .	15.05	19.22	20.47	21.25	22.40	10.70	13.91	14.69	15.29	16.03
South . . . . .	13.68	17.81	18.59	19.49	19.95	10.03	13.09	13.71	14.34	14.60
West . . . . .	15.97	20.88	21.86	22.68	23.07	11.62	15.45	16.19	16.68	16.74
Union status:										
Union . . . . .	19.76	25.88	27.80	29.42	30.68	13.02	16.87	18.36	19.33	19.95
Nonunion . . . . .	14.54	19.07	19.98	20.79	21.36	10.78	14.18	14.81	15.38	15.69
Establishment employment size:										
1–99 employees . . . . .	13.38	17.16	17.86	18.51	18.93	10.00	12.95	13.41	13.88	14.12
100 or more . . . . .	17.34	22.81	24.19	25.48	26.42	12.23	16.19	17.20	18.07	18.54
100–499 . . . . .	14.31	19.30	20.97	21.99	22.62	10.32	14.05	15.21	15.87	16.15
500 or more . . . . .	20.60	26.93	28.17	29.79	30.94	14.28	18.70	19.67	20.79	21.39
Health insurance as a percent of total compensation										
Characteristic	Health insurance					Health insurance as a percent of total compensation				
	1991	2000	2001	2002	2003	1991	2000	2001	2002	2003
Amount per employee-hour worked										
State and local government. . . . .	\$1.54	\$2.27	\$2.56	\$2.69	\$2.99	6.9	7.8	8.5	8.6	9.2
Total private industry. . . . .	0.92	1.09	1.28	1.29	1.41	6.0	5.5	6.2	5.9	6.3
Industry:										
Goods producing . . . . .	1.28	1.62	1.85	1.84	1.98	6.9	6.9	7.6	7.2	7.5
Service producing . . . . .	0.79	0.92	1.11	1.13	1.25	5.5	4.9	5.6	5.5	5.9
Manufacturing . . . . .	1.37	1.69	1.93	1.92	2.08	7.5	7.2	7.9	7.6	8.0
Nonmanufacturing . . . . .	0.80	0.96	1.15	1.17	1.29	5.5	5.0	5.7	5.6	5.9
Occupation:										
White collar . . . . .	1.02	1.21	1.43	1.42	1.86	5.6	5.0	5.6	5.4	6.4
Blue collar . . . . .	1.06	1.28	1.45	1.48	1.70	7.0	6.8	7.5	7.3	8.0
Service . . . . .	0.36	0.42	0.52	0.56	0.96	4.6	4.3	5.0	5.1	7.0
Census region:										
Northeast . . . . .	1.08	1.27	1.50	1.48	1.63	6.2	5.6	6.3	5.9	6.3
Midwest . . . . .	0.95	1.12	1.35	1.35	1.48	6.3	5.8	6.6	6.4	6.6
South . . . . .	0.76	0.96	1.16	1.14	1.24	5.5	5.4	6.2	5.8	6.2
West . . . . .	0.92	1.05	1.19	1.26	1.39	5.8	5.0	5.4	5.6	6.0
Union status:										
Union . . . . .	1.63	2.17	2.48	2.57	2.80	8.2	8.4	8.9	8.7	9.1
Nonunion . . . . .	0.78	0.95	1.14	1.13	1.24	5.4	5.0	5.7	5.4	5.8
Establishment employment size:										
1–99 employees . . . . .	0.68	0.82	0.94	0.96	1.05	5.1	4.8	5.3	5.2	5.5
100 or more . . . . .	1.14	1.38	1.66	1.67	1.84	6.6	6.0	6.9	6.6	7.0
100–499 . . . . .	0.90	1.09	1.38	1.40	1.56	6.3	5.6	6.6	6.4	6.9
500 or more . . . . .	1.40	1.73	2.00	1.99	2.17	6.8	6.4	7.1	6.7	7.0

NOTES: Costs are calculated from March survey data each year. Total compensation includes wages and salaries, and benefits. See Appendix II, Employer costs for employee compensation. Data for additional years are available. See Appendix III.

SOURCES: U.S. Department of Labor, Bureau of Labor Statistics, National Compensation Survey, Employer Costs for Employee Compensation, March release; *News* pub nos 91–292, 00–186, 01–194, 02–346, and 03–297. June 19, 1991; June 29, 2000; June 29, 2001; June 19, 2002; and June 11, 2003. Washington, DC.

Table V. Cause-of-death codes, according to applicable revision of *International Classification of Diseases (ICD)*

Cause of death (Tenth Revision titles)	Sixth and Seventh Revisions	Eighth Revision	Ninth Revision	Tenth Revision
Communicable diseases . . . . .	...	...	001–139, 460–466, 480–487, 771.3	A00–B99, J00–J22
Chronic and noncommunicable diseases . . . . .	...	...	140–459, 470–478, 490–799	C00–I99, J30–R99
Injuries <sup>1</sup> . . . . .	...	...	E800–E869, E880–E929, E950–E999	*U01–*U03, V01–Y34, Y85–Y87, Y89
Meningococcal Infection . . . . .	...	...	036	A39
Septicemia . . . . .	...	...	038	A40–A41
Human immunodeficiency virus (HIV) disease <sup>2</sup> . . . . .	...	...	*042–*044	B20–B24
Malignant neoplasms . . . . .	140–205	140–209	140–208	C00–C97
Colon, rectum, and anus . . . . .	153–154	153–154	153, 154	C18–C21
Trachea, bronchus, and lung . . . . .	162–163	162	162	C33–C34
Breast . . . . .	170	174	174–175	C50
Prostate . . . . .	177	185	185	C61
In situ neoplasms and benign neoplasms . . . . .	...	...	210–239	D00–D48
Diabetes mellitus . . . . .	260	250	250	E10–E14
Anemias . . . . .	...	...	280–285	D50–D64
Meningitis . . . . .	...	...	320–322	G00, G03
Alzheimer's disease . . . . .	...	...	331.0	G30
Diseases of heart . . . . .	6th: 410–443 7th: 400–402, 410–443	390–398, 402, 404, 410–429	390–398, 402, 404, 410–429	I00–I09, I11, I13, I20–I51
Ischemic heart disease . . . . .	...	...	410–414, 429.2	I20–I25
Cerebrovascular diseases . . . . .	330–334	430–438	430–434, 436–438	I60–I69
Atherosclerosis . . . . .	...	...	440	I70
Influenza and pneumonia . . . . .	480–483, 490–493	470–474, 480–486	480–487	J10–J18
Chronic lower respiratory diseases . . . . .	241, 501, 502, 527.1	490–493, 519.3	490–494, 496	J40–J47
Chronic liver disease and cirrhosis . . . . .	581	571	571	K70, K73–K74
Nephritis, nephrotic syndrome, and nephrosis . . . . .	...	...	580–589	N00–N07, N17–N19, N25–N27
Pregnancy, childbirth, and the puerperium . . . . .	640–689	630–678	630–676	A34, O00–O95, O98–O99
Congenital malformations, deformations, and chromosomal abnormalities . . . . .	...	...	740–759	Q00–Q99
Certain conditions originating in the perinatal period . . . . .	...	...	760–779	P00–P96
Newborn affected by maternal complications of pregnancy . . . . .	...	...	761	P01
Newborn affected by complications of placenta, cord, and membranes . . . . .	...	...	762	P02
Disorders related to short gestation and low birthweight, not elsewhere classified . . . . .	...	...	765	P07
Birth trauma . . . . .	...	...	767	P10–P15
Intrauterine hypoxia and birth asphyxia . . . . .	...	...	768	P20–P21
Respiratory distress of newborn . . . . .	...	...	769	P22
Sudden infant death syndrome . . . . .	...	...	798.0	R95
Unintentional injuries <sup>3</sup> . . . . .	E800–E936, E960–E965	E800–E929, E940–E946	E800–E869, E880–E929	V01–X59, Y85–Y86
Motor vehicle-related injuries <sup>3</sup> . . . . .	E810–E835	E810–E823	E810–E825	V02–V04, V09.0, V09.2, V12–V14, V19.0–V19.2, V19.4–V19.6, V20–V79, V80.3–V80.5, V81.0–V81.1, V82.0–V82.1, V83–V86, V87.0–V87.8, V88.0–V88.8, V89.0, V89.2
Suicide <sup>1</sup> . . . . .	E963, E970–E979	E950–E959	E950–E959	*U03, X60–X84, Y87.0
Homicide <sup>1</sup> . . . . .	E964, E980–E983	E960–E969	E960–E969	*U01–*U02, X85–Y09, Y87.1
Injury by firearms . . . . .	...	E922, E955, E965, E970, E985	E922, E955.0–E955.4, E965.0–E965.4, E970, E985.0–E985.4	W32–W34, X72–X74, X93–X95, Y22–Y24, Y35.0

... Cause-of-death code numbers are not provided for causes not shown in *Health, United States*.

<sup>1</sup>Beginning with 2001 data, NCHS introduced categories \*U01–\*U03 for classifying and coding deaths due to acts of terrorism. The \* indicates codes are not part of the Tenth Revision.

<sup>2</sup>Categories for coding human immunodeficiency virus infection were introduced in 1987. The \* indicates codes are not part of the Ninth Revision.

<sup>3</sup>In the public health community, the term “unintentional injuries” is preferred to “accidents” and “motor vehicle-related injuries” to “motor vehicle accidents.”